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Thus the present prices are :

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2/6 ,, ,,	**24/-** ,,

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2/9 ,, ,,	**27/-** ,,

Massolettes may be sold unstamped until after June 24th.

(N.B.—These prices do not apply to Massogran, which may be sold unstamped; the price remains: 2/6 size at 24/- doz. This preparation is NOT liable to duty.)

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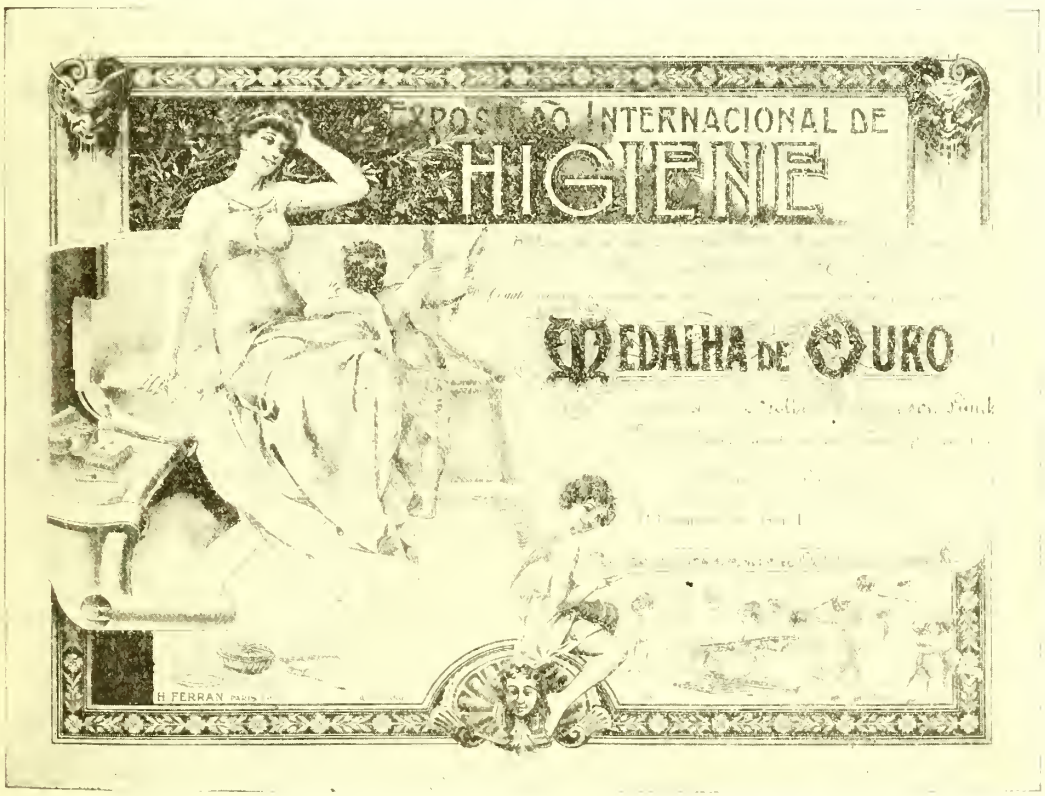

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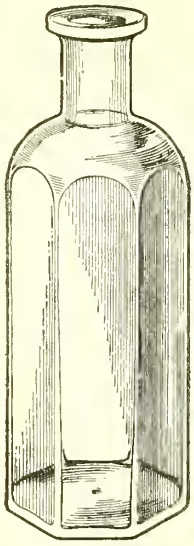

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White Glass, Globe Stoppered ...	18/6	19/-	20/-	20/6	21/9	24/-	28/-	31/6	34/-	37/-	44/-	48/-
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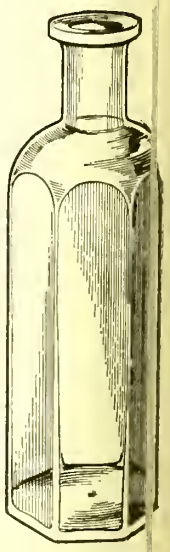

The "Ideal" Bottles are stoppered in the same factory as they are made in, which is the only way to get the best stoppering at the lowest prices.

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Condy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Jeyes' Sanitary Compounds, Ltd.
Sanitas Co., Ltd.
Tomlinson & Hayward, L
Willows, Francis B. & T
Wright, Layman & Umney, Ltd

DOUCHES
Reuter, R. J

DRUGGISTS' SUNDRIES
Ayrton, Saunders & Co.,
Barclay & Sons, Ltd.
Berliner, Arthur
Burge, Warren & Ridgley
Bush, H. W., & Co., Ltd.
Christy, T., & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd
Hewlett, C. J., & Sons
Hovenden, R., & Sons, Ltd
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Moores, Charles L.
Newbery, F., & Sons, Ltd
Poths, H., & Co.
Quelch, H. C., & Co.
Reuter, R. J.
Sangers'
Schutze, F., & Co.
Shirley Bros., Ltd.
Solport Bros.
Southall Bros. & Barclay, Ltd
Tidman & Son, Ltd.
Toogood, W., Ltd.
Wattenbach, O.
Woolley, J., Sons & Co.

DRUGS, CRUDE
Baiss Bros. & Stevenson,
Bernhardi, I.
Brook, Parker, & Co., L
Gathergood's Exor.
Potter & Clarke, Ltd.
Ransom, W., & Son
Salle, H., & Cie.

DYES
Judson, D., & Son
Whitaker & Co. (Hat)

EAU DE COLOGNE
Farina, J. M.
Farina, J. M. (No. 4)
Fickus, Courtenay & Co.
McCracken, J. & R.
Schutze, F., & Co.

EDUCATIONAL INSTITUTIONS
Bath and West of England College of Pharmacy.
Birmingham and Midland College
Edinburgh Central School
Glasgow School of Pharmacy
Harker, Charles
Leeds College of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
Manchester College of Pharmacy
Muter's (So. Lond.) School
North of England School
Northern College of Pharmacy
South of England College

ELASTIC HOSIERY
Ayrton, Saunders & Co., Ltd.
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Surgical Hosiery Co., L
Wood, Vincent

EFFERVESCENT PREP
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson Ltd
Bishop, Alfred, Ltd.
Blackie, R.
Bristol-Myers Co.
British Drug Houses, L
Butler, T. E., Son, & C
Cox, A. H. & Co., Ltd.
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd
Goodall, Backhouse & Co
Guest, Thos., & Co.
Howards & Sons, Ltd.
Knitnow, S., & Co., Ltd.
Newball & Mason
Potter & Clarke, Ltd.
Shirley Bros., Ltd.
Standard Tablet & Pill
Sturge, John & E.
Tyrer, T., & Co., Ltd
Wright, Layman & Umney, Ltd

EMBROCATIONS
Chameleon Oil Co., Ltd.

EARY AND CLOTH
Cley, J., & Sons, Ltd.

EMULSIONS, C.L.O., ETC.
Allen & Hanburys, Ltd.
Ayton, Saunders & Co., Ltd.
Bates Bros. & Stevenson, Ltd.
Blackie, Robert
British Drug Houses, Ltd.
Fielding, F. H., & Co.
Baker, Stagg & Morgan, Ltd.
Oldfield, Pattinson & Co.
Parke, Davis & Co.
Sutt & Bowne, Ltd.
Southall Bros. & Barclay, Ltd.
Willey, Jas., Sons & Co.
Wright, Layman & Umney, Ltd.

ENAMAS
Bey, W. H., & Son
Burge, Warren & Ridgley, Ltd.
Dual Rubber Co.
Maw, S., Son & Sons
Tywood, W., Ltd.
Wane, W., & Co. Ltd.

ENTOMOLOG. APPARATUS
Watkins & Doncaster

EPSOM SALTS
Howards & Sons, Ltd.

ESSENCES, CONCRETE
Lautier Fils

ESSENCES, SOL. AND FRUIT
Alliance Drug & Chem. Co.
Bennett & Foster
Boake, Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Fuerst Bros.
Hall Wm., Ltd.
Lautier Fils
London Essence Co.
Nesball & Mason
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Zimmermann, A. & M.

ETHERS
Bates Bros. & Stevenson, Ltd.
Masarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
Wills, A., & Sons

EUCALYPTUS OIL
Bates Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.

EXTRACT OF HERBS
Nesball & Mason
Potter & Clarke, Ltd.

EXTRACTS (MEDICINAL)
Allen, Stafford, & Sons, Ltd.
Evans Sons Lescher & Webb
Gatergood's Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son
Royal Pharmaceutical Trading Society

FEEDING BOTTLES
Breff, E., & Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Howden, R., & Sons, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Sanders'
Solport Bros.
Southall Bros. & Barclay Ltd.

FERTILISERS
Neue Kalisyndikat
Voss, Walter, & Co.
Wilt Chemical Manure Co.

FILTERS
Berfield Filter Co., Ltd.

FINGER STALLS
Solport Bros.

FLESH GLOVES
Sanders'
Solport Bros.

FLYCATCHERS
Alabastine Co. (British), Ltd.
Deanere Manfg. Co.
Fordham Shapland & Co.
Froyn, C.
Jackson, W. & H.
Kayros., Ltd.
Smith, J. H., & Co.
Tunbridge & Wright

FOOD, INFANTS'
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Frame Food Co., Ltd
Loftus & Saltmer
Natural Food Co., Ltd.
Willis, Francis B. & T.

FRUIT SYRUPS
Idris Co., Ltd.

FOODS, SPECIAL
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Brusson Jeune
Bort, C. J.
Callard & Co.
Cox, Arthur H., & Co., Ltd.
Fairchild Bros. & Foster
Frame Food Co., Ltd.
Menley & James, Ltd.
Natural Food Co., Ltd.
Wander, A., Ltd.

FULLER'S EARTH
Mumford, G. S., & Sons

FUMIGATORS
Sanitas Co., Ltd.

FUNNELS, ALUMINIUM
Reuter, R. J.

GLAUBER'S SALT
Bramwell E., & Son
Howards & Sons, Ltd.

GLYCERIN
Fuerst Bros.
Meffert, Hermann & Co.
Price's Patent Candle Co.
Steven, Andrew, & Son

GLYCERIN PLANT
Forshaw, E., & Son, Ltd.

GLYCEROPHOSPHATES
Merck, E.

GOLD PAINT
Jodson, D., & Son

GRINDERS, DRUG, ETC.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis B. & T.

GUMS
Fink, F., & Co.

HAIR DYES
Blackie, Robert
Harker, Stagg & Morgan, Ltd.

HAIR PREPARATIONS
Bates, F. W.
Blackie, Robert
Chesebrough Manfg. Co.
Edwards' "Harlene" Co.
Egglossa Mnfg. Co.
Harker, Stagg & Morgan, Ltd.
Herpicide Co.
John Strange Winter
Rohare's Aureoline
To-Kalon Mnfg. Co., Ltd.

HAT DYES
Whitaker & Co.

HEATING APPARATUS
Clark's Syphon Stove Co., Ltd.

HERBS
Brook, Parker & Co., Ltd.
Potter & Clarke, Ltd.
Ransom, W., & Son

HOMŒOPATHIC MEDICINES
Ashton & Parsons, Ltd.
Epps, James, & Co.
Keene & Ashwell, Ltd.
Leath & Ross

HOTELS
Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HOT-WATER BOTTLES
Berliner, Arthur
Burge, Warren & Ridgley
Galen Mfg. Co., Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Southall Bros. & Barclay
Tompkins, James, Ltd.

HYDROGEN PEROXIDE
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

INHALERS
Maw, S., Son & Sons

INK POWDERS
Williams Bros. & Co.

INSECT POWDER
Shirley Bros., Ltd.

INSECTICIDES
Christy, Thos., & Co.
Tomlinson & Hayward, Ltd.
Voss, Walter, & Co.

INVALID CHAIRS
Ellmore, W. T., & Son, Ltd.

IODINE AND IODIDES
Howards & Sons, Ltd.
Morson, T., & Son

IRISH MOSS
Cumming, J. W.

ITROSYL
Fletcher, Fletcher & Co.

JARS AND POTS
Breffit, E., & Co., Ltd.
Bush, H. W., & Co., Ltd.
Christy, T., & Co.
Johnsen & Jorgensen Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Poths, H., & Co.
Reuter, R. J.
Stipendum Stopper Co.
Toogood, W., Ltd.

JUNKET POWDER
Armour & Co., Ltd.
Fullwood, R. J., & Bland

LACTIC FERMENT PREPS.
Allen & Hanburys, Ltd.
Davies Sons & Co.
Evans Sons Lescher & Webb, Ltd
Lactic Ferments, Ltd.
Lloyd, T. Howard, & Co.
Martindale, W.
Parke, Davis & Co.
Standard Tablet Co.
Wilcox, Jozeau & Co.

LANOLINE
Borroughs Wellcome & Co.
Christy, T., & Co.

LARD
Ewen, J., & Sons

LEATHER DYES
Williams Bros. & Co.

LIME JUICE AND CORDIAL
Evans Sons Lescher & Webb
Goodall, Backhouse & Co.

LINSEED, CRUSHED, ETC.
Allen, Stafford, & Sons
Mumford, G. S., & Sons

LINTS
Liverpool Lint Co.
Robinson & Sons, Ltd.
Taylor, W. G.
Vernon & Co., Ltd.

LIQUORICE JUICE
British Drug Houses, Ltd.
Fuerst Bros.
Evans Sons Lescher & Webb, Ltd.
Jackson, E. E.
Mumford, G. S., & Sons

LIQUORS, CONC., ETC.
Fletcher, Fletcher & Co.
Hewlett, C. J., & Son
Robinson, B., & Co.

LITHIA SALTS
British Drug Houses, Ltd.
Fuerst Bros.
May & Baker, Ltd.
Merck, E.

LOZENGES
Ayrton, Saunders & Co., Ltd.
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Guest, Thos., & Co.
Jackson, E. E.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Braithwaite H., & Co., Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper (Stokes)
Wilkinson, S. W., & Co.

MAGNESIA AND ITS SALTS
Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd.
Parke, Davis & Co.
Washington Chemical Co., Ltd.

MARKING INK
Hickisson, A. (Bond's)
Williams Bros. & Co.

MAILING CASES
Estes, E. B., & Sons

MALT EXTRACT AND PREPS
Allen & Hanburys, Ltd.
Blackie, Robert
British DiaMalt Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb
Hewlett, C. J., & Son
Montgomerie & Co., Ltd.
Oppenheimer, Son & Co., Ltd
Paine & Co., Ltd.
Southall Bros. & Barclay, Ltd
Woolley, Jas., Sons & Co., Ltd
Wright, Layman & Umney

MEASURES
Beatson & Co.
Bush, H. W., & Co., Ltd

MEAT EXTRACTS
Armour & Co., Ltd.
Brand & Co., Ltd.

MEDICINE CHESTS
Burroughs Wellcome & Co.
Keene & Ashwell, Ltd.
Leath & Ross
Lloyd, T. Howard, & Co.
Parke, Davis & Co

MENTHOL CONES
Bush, H. W., & Co., Ltd.
Lubenow, Hugo, Ltd.
Maw, S., Son & Sons

MERCURIALS
Howards & Sons, Ltd.
May & Baker, Ltd
Merck, E.
Tyrer, T., & Co., Ltd.

METEOROLOGICAL SETS
Darton, F., & Co.

METHYLATED SPIRIT
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MICROSCOPES
Darton, F., & Co.

MINERAL WATERS AND SALTS
Apollinaris Co., Ltd.
British Drug Hooses, Ltd.
Cheltenham Municipality
Findlater & Co., Ltd.
Hughes, E. Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)

OILS, ESSENTIAL
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chem. Co.
Bennett Bros.
Boake, Roberts & Co.
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ltd.
Fuerst Bros.
Lautier Fils
Lhermine & Cie.
London Essence Co.
Pasqoale, S. F. de, & Fratelli
Poppelreoter, W
Ransom, W., & Son
Scheller, Emil, & Co.
Schimmel & Co.
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, A. & M.

OILS, FATTY, ETC.
Allen, Stafford, & Sons, Ltd.
Foerst Bros.
Price's Patent Candle Co.
Schlicmann's Oil & Ceresine Co.

OILS, MINERAL
Fuerst Bros.
Price's Patent Candle Co.
Stern Sonneborn Oil Co., Ltd.

OINTMENTS
Blackie, R.
Borgess, E.
Lyle & Co.
Oldfield, Pattinson & Co
Zimmermann, Chas., & Co.

OPTICAL GOODS
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Günther Optical Co.
Raphael's, Ltd.

ORANGE WINE
Melrose-Drover Co. Ltd
Millar, A., & Co., Ltd.

OTTO OF ROSE
Bontcheff & Kidoff
Reitmeyer & Co. (synthetic)
Shipkoff & Co.

OXYGEN APPARATUS
Oppenheimer, Son & Co., Ltd.

OZONE GENERATOR
Reuter, R. J.

PALATINOIDS
Oppenheimer, Son & Co.

PAPER TUBES
O'Neill, S., & Sons, Ltd.

PATENT AGENT
Barker, R. W.

PASTILLES
Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Burroughs Wellcome & Co.
Denonal, J., & Co.
Epps, James & Co.
Evans Sons Lescher & Webb
Guest, Thos., & Co.
Jeyes Sanitary Comp. Co., Ltd.
Wander, A., Ltd.
Warrick Bros.

PERFUME MATERIALS
Beisly, W. G.
Bontcheff & Kidoff
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Lantier Fils
Naef, M., & Co. Succrs.
Scheller, Emil & Co.
Schimmel & Co.
Shipkoff & Co.
Spencer, J., Son & Co
Zimmermann, C., & Co.

PESSARIES
Burge, Warren & Ridgley
Rendell, W. J.

PETROLEUM JELLY
Chesebrough Mfg. Co.
Schliemann's Oil & Ceresine Co.

PERFUMES
Allen & Hanburys, Ltd.
Barclay & Sons, Ltd.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Erasmic Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
John Strange Winter
Lescol Perfumery Co.
McCracken, J. & R.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Oatine Co.
Quelch, H. C., & Co.
Southall Bros. & Barclay
Spencer, J., Son & Co.
To-Kalon Mnfg. Co., Ltd.
Warrick Bros.
West, T., & Son

PHOTO. CHEMICALS
Boehringer, C. F., & Soehne
Reitmeyer & Co.

PHOTO. ENLARGERS, PRINTERS, &c.
Express Developing Co.
Halifax Photographic Co.

PHOTO. GOODS
Barclay & Sons, Ltd.
Burroughs Wellcome & Co.
Darton, F., & Co.
Evans Sons Lescher & Webb, Ltd.
Halifax Photographic Co.
Ilford, Ltd.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Reitmeyer & Co.

PILL COUNTERS
Bornkessel, F. G.

PILL MAKERS
Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Houses, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howards & Sons, Ltd.
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Standard Tablet & Pill Co.
Wand Mfg. Co

PLEATED PAPER
Darter, Wilkinson & Co.

PLASTERS
Allcock Mnfg. Co
Berliner, Arthur
Beiersdorf, P., & Co.
Dalmas, A. de St., & Co.
Geiger & Brann
Leslies, Ltd.
Maw, S., Son & Sons

POLISHES (VARIOUS)
Bradley & Bourdas
Judson, Daniel, & Son
Oakey, J., & Son, Ltd.

POTASH
Neues Kalisyndikat

PRINTERS
Christie, Malcolm & Co.
Dudley & Co.
Ford, Shapland & Co.
Harrison & Waide
Smith, W. H., & Son
Timme, W. C., & Co.
Townsend, J., & Sons

PROPRIETARY ARTICLES
Ashton & Parsons, Ltd.
Barclay & Sons Ltd.
Beecham, T.
Bell, John, Hills & Lucas, Ltd.
Boulton, J., & Co. (1909)
Bow's Liniment, Ltd.
Box, W. H.
British Drug Houses, Ltd.
British Liquozone Co.
Burgess, E.
Chameleon Oil Co., Ltd.
Christy, T., & Co.
Coleman & Co., Ltd.
Congreve, G. T.
Conoid Co.
Cox, A. H., & Co., Ltd.
Daggett & Ramsdell
Daisy, Ltd.
Danysz Virus, Ltd.
Da Silva & Co.
Davenport, J. T., Ltd.
Day & Sons (Crewe), Ltd.
Denoual, J., & Co.
Ecsolent Compounds, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Fellows' Syrup
Fennings, Alfred
Ferris & Co.
Freeman's Chlorodyne, Ltd.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Harvey & Co. (Dublin), Ltd.
Henry, T. & W
Hovenden, R., & Sons, Ltd.
Hughes, E. Griffiths
Ichthyol Gesellschaft
Iron-Ox Rem. Co., Ltd.
Jackson, T.
Kay Bros., Ltd.
Kutnow, S., & Co., Ltd.
Lalor's Phosphodyne
Lofthouse & Saltmer
Martindale, W.
May, Roberts & Co.
Menley & James, Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Pedezy Co.
Phillips, Chas. H., Chem. Co.
Regulin Syndicate, Ltd.
Reitmeyer & Co.
Resinol Chemical Co.
Sangers'
Sartolin, Ltd.
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stedman's Teething Powders
Thompson & Capper
Tomoda, K., & Co.
Tunbridge & Wright
Voss & Co.
Walker & Son
Wilcox, Jozeau & Co.
Zimmermann, A. & M.
Zimmermann, C., & Co.
Zotos, Ltd.
(*See also* DENTRIFICES and TOILET ARTICLES)

PULVELLÆ
Warrick Bros.

PULVERETTES
Oppenheimer, Son & Co., Ltd.

PUMPS
Berkefeld Filter Co., Ltd

QUININE AND SALTS
Boehringer, C. F., & Soehne
Burroughs Wellcome & Co.
Howards & Sons, Ltd.
Pointet & Girard

RAZORS
Auto-Strop Safety Razor Co.
International Distributing Co.

RENNET
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

RESINS AND RESINOIDS
Allen, S., & Sons, Ltd.
Allen & Hanburys, Ltd.
Morson, T., & Son
Ransom, W., & Son
Smith, T. & H., Ltd.

RESPIRATORS
Zimmer & Co.

RUBBER GOODS
Burge, Warren & Ridgley, Ltd.
Davol Rubber Co.
Evans Sons Lescher & Webb, Ltd.
Galen Mfg. Co.
Haywood, J. H., Ltd.
Hovenden, R., & Sons, Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Shirley Bros., Ltd.
Warne, W., & Co., Ltd.

SACCHARIN
Saccharin Corporation, Ltd.

SALICIN
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.

SAMPLE CASES
Keane, Thomas

SANTONIN
Smith, B. A., & Co.

SAPONIN
Field, C. W.
Sthamer, Dr. R.

SAUCES
Goodall, Backhouse & Co.

SCALE PREPARATIONS
Morson, T., & Son

SCALES, WEIGHING
Maw, S., Son & Sons
Parnall & Sons, Ltd.
Southall Bros. & Barclay, Ltd.

SEA SALT
Tidman & Son, Ltd.

SEA-SICKNESS REMEDY
Zotos, Ltd.

SEEDS
Bernhardi, I.
Brook, Parker & Co., Ltd.
Potter & Clarke, Ltd.

SERUMS AND ANTITOXINS
Allen & Hanburys, Ltd.
American Animal Therapy Co
Evans Sons Lescher & Webb, Ltd.
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Jozeau & Co.

SHARES
McAdam & Tuckniss

SHEEP-DIPS
Burt, Boulton & Haywood
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.

SHOP-FITTING
Ayrton-Graham, Ltd.
Bowling & Son
Evans Sons Lescher & Webb, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons, Ltd
Rudduck & Co.
Sangers'
Southall Bros. & Barclay, Ltd.

SHOULDER-STRAPS
Wood, Vincent

SOAP MATERIALS
Armour & Co., Ltd
Chiris, Antoine

SOAP PLANT
Forshaw, E., & Son, Ltd.

SOAPS, MEDICATED
Armour & Co., Ltd.
Bronnley, H., & Co., Ltd.
Fulford, C. E., Ltd.
Lambert Pharmacal Co.
Resinol Chemical Co.
Wright Layman & Umney

SODIUM BICARBONATE
Brunner, Mond & Co., Ltd
Electrolytic Alkali Co., Ltd.
Howards & Sons Ltd.
Mumford, G. S

SODA FOUNTAINS
Consol Automatic Aerators, Ltd.

SOOTHERS & FITTINGS
Shirley Bros., Ltd.

SOYA OIL
Hull Oil Mnfg. Co.

SPARKLETS
Aerators, Ltd.

SPECTACLES
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Günther Optical Co.
Raphael's, Ltd.

SOAPS
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Chesebrough Mfg. Co.
Cook, E., & Co., Ltd.
Erasmic Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hull Oil Mfg. Co., Ltd.
International Distributing Co.
John Strange Winter
Lescol Perfumery Co
Oakey, J., & Son, Ltd.
Oowana Soap Co., Ltd.
Pears, A. & F., Ltd.
Peats Products (Sphagnol), Ltd.
Price's Patent Candle Co.
Shaw, Henry, & Co.
Wright, Layman & Umney

SPHYGMOMETERS
Hicks, J. J.

SPINAL CARRIAGES
Ellmore, W. T., & Son, L

SPIRIT OF WINE
Burrough, J., Ltd.
Macnair, A., & Co.
Preston's Liverpool Distille

SPONGE BAGS
Maw, S., Son & Sons
Schutze, F., & Co.
Toogood, W., Ltd.

SPONGES
Internl. Sponge Importers
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
Sangers'

SPONGES, COVERED
Garrould, E. & R.

SPRAYS
Burge, Warren & Ridgley, Ltd.
Burt, Boulton & Haywood, Ltd.
Davol Rubber Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Renter, R. J.

STARCH
Mumford, G. S., & Sons
Wood, Chas. E.

STATIONERY
East, Walter

STILLS
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Lt

STOPPERS
Fletcher, Fletcher & Co.
Stipendum Stopper Co.

SUPPOSITORIES
Cox, Arthur H., & Co.
Peat Products (Sphagnol), L

SURGICAL APPLIANCES
Allen & Hanburys, Ltd.
Bailey, W. H., & Son
Burroughs Wellcome & Co.
Haywood, J. H., Ltd.
Hughes, G.
Hutchinson Co.
Maw, S., Son & Sons
Quelch, H. C., & Co.
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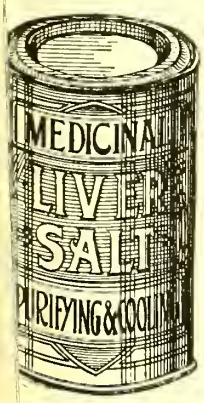

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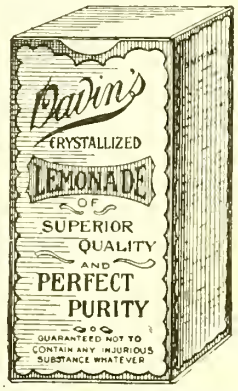

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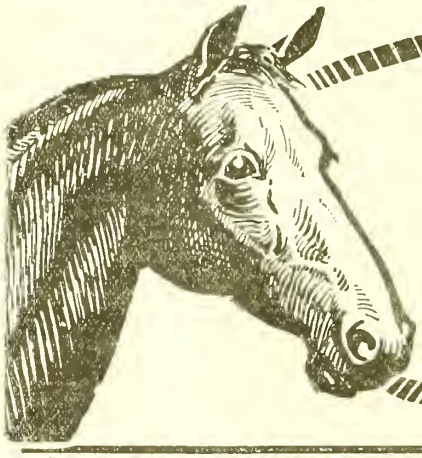

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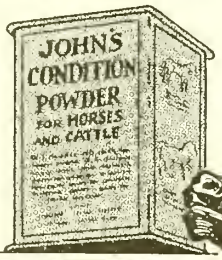

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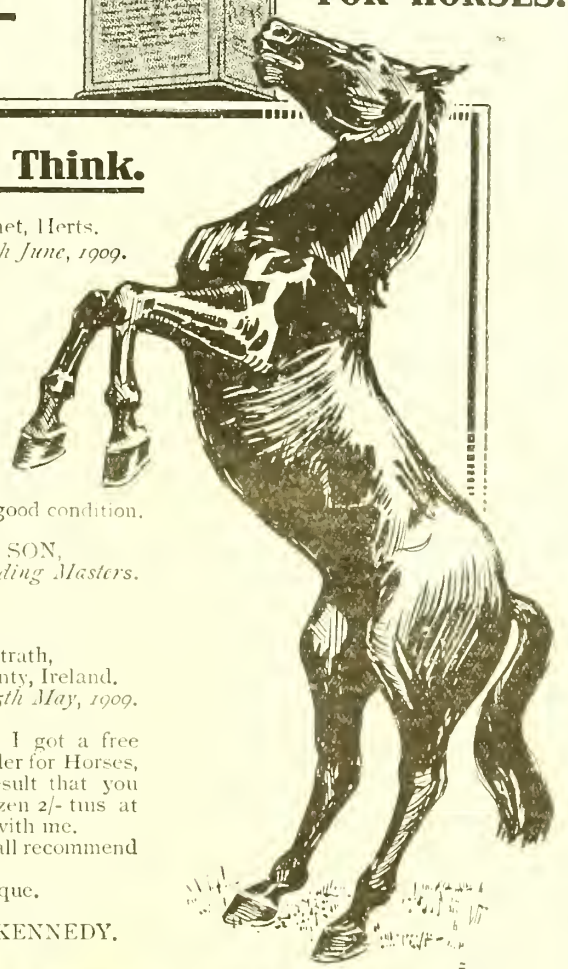

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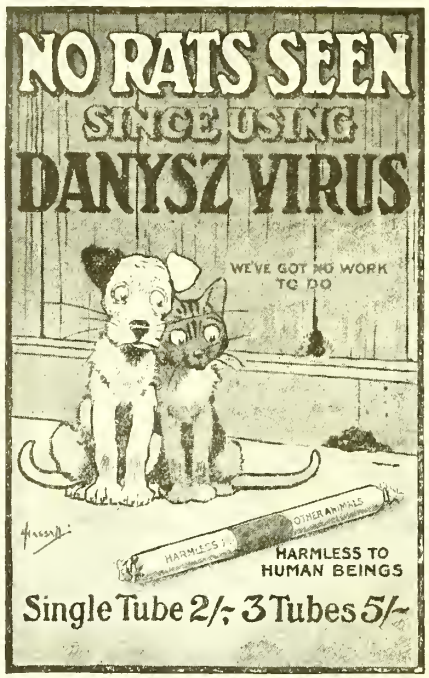

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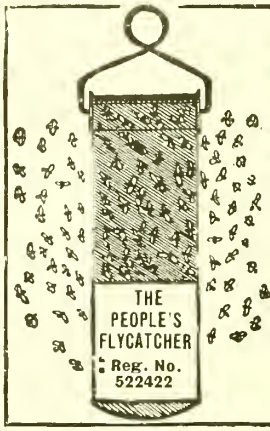

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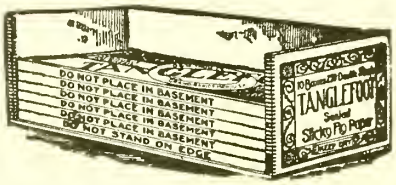

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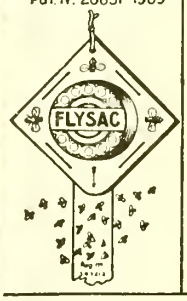

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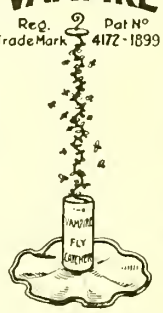

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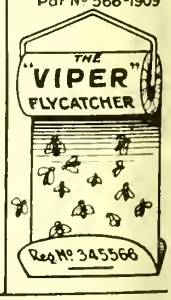

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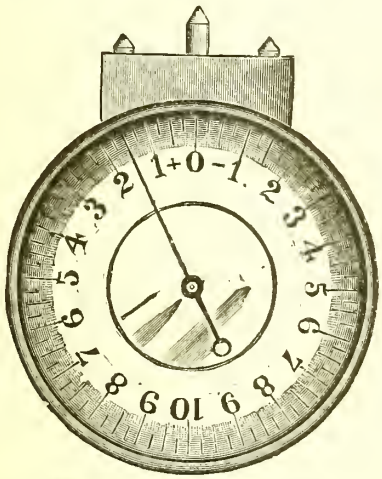

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YŌST TALKS

to Chemists.

Talk No. 1.

A SOUND INVESTMENT FOR CHEMISTS.

¶ YOU have doubtless expended a considerable amount of money during the last few years in having handbills printed.

¶ NOW, supposing that money had been invested in a

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¶ YOU would have been able to send out thousands of neatly typewritten letters which would have about ten times the pulling power of an ordinary circular, and after doing all this work, the machine would still be in your possession as a

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Send for special Booklet, post free from

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Branches everywhere.

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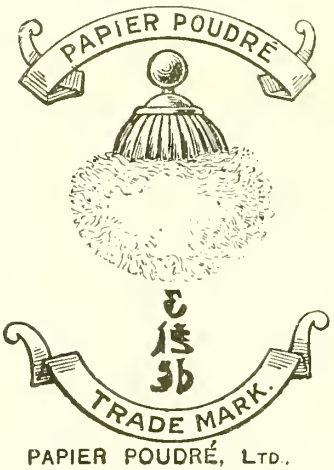

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PERFECT COLD CREAM.

"The kind that keeps."

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Different from and superior to all other cold creams. Not affected by heat, cold or climatic changes. Retains to the last its snowy whiteness, delicate perfume and wonderful properties which have given it international fame.

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OVER 100% PROFIT ENSURED & PROTECTED (P.A.T.A.)

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Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz., less 5 % discount.
1/6	1/6	9/-	
2/6	2/3	15/-	
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SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz., 1/6 size, to 4/6, 12/. and 27/- respectively.

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"ODOURESSENCES" and CONCENTRATED PERFUMES *free from Alcohol.*

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ESSENTIAL OIL of LAVENDER	ELATERIUM	DRIED MEDICINAL LEAVES
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Medicinal Tinctures and Spirits prepared with Pure Spirit supplied in Bond for Export.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils, and Dried Herbs of superior Quality. Also Award at the Paris Exhibition, 1867

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BY APPOINTMENT TO H.M. THE KING.

SCRUBB'S AMMONIA

MARVELLOUS PREPARATION

Refreshing as a Turkish Bath. Invaluable for Toilet Purposes.
Splendid Cleansing Preparation for the Hair. Removes Stains and Grease Spots from Clothing.
Allays the Irritation caused by Mosquito Bites. Invigorating in Hot Climates.
Restores the Colour to Carpets. Cleans Plate and Jewellery. Softens Hard Water.

Of all Chemists, Etc. Price 1s. per Bottle.

SCRUBB & CO., LTD., GUILDFORD STREET, LONDON, S.E.

"Go to The Chemist."

In many of our advertisements we invite interested readers to fill up a coupon and hand it, with three penny stamps, to their Chemist. The Chemist is asked to forward coupon with *two* penny stamps to us. We then send the samples direct to the enquirer. This method of distributing samples has been adopted because we want the Public to associate the Chemist with all Pomeroy Specialities. We desire to trade with the Public *through* the Chemist. We say—"Go to the Chemist." They go. In due course, having received and tested the samples, they go to the Chemist again—with the first of possibly a long series of orders. That is good for the Chemist. Good for the Chemist in more ways than one—for other business is done with these Pomeroy customers, and additional trade is always welcome.

Pomeroy

SKIN FOOD & SHAMPOO POWDERS

Full particulars gladly supplied by

Mrs. POMEROY, Ltd.

33 & 34 CARNABY STREET, LONDON, W.

: : NO MORE : :
PETROL DANGER.

SECURITINE

DRY CLEANING FLUID.

NON-INFLAMMABLE.

SWEETLY SCENTED.

Knocks out Benzine, Turps, &c.

so dangerous to handle and to keep in stock.

INVALUABLE for Removing Grease Spots and Stains — Renovating Furniture Coverings and Embroideries — Cleaning Gloves, Silks, and Articles of Wearing Apparel.

A PROFITABLE LINE FOR CHEMISTS.

Prices Protected by P.A.T.A.

Sold in **3d., 6d.** and **1/-** Bottles.

The Leading Chemists & Stores are already selling it

The "Securitas" Non-Inflammable Products Co. Ltd.

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Telephone: 7691 London Wall. Telegrams: "Garage London."

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The ORIGINAL remedy that kills the dandruff germ.

This wonderful Hair-Saver acts by destroying the germ or microbe that causes dandruff, itching scalp and falling hair, after which the hair resumes its abundant growth and beauty as nature intended. Extraordinary results follow the intelligent use of Herpicide. Sold in all civilised countries.

Newbro's Herpicide is the most exquisite hair dressing in the world. Cooling and comforting. It stops itching of the scalp almost instantly.

Manufactured by THE HERPICIDE COMPANY, Detroit, Michigan, U.S.A.

TRADE SUPPLIED BY

THE AMERICAN DRUG STORES
Wholesale and Retail
C. BROOKS, M.P.S., Chemist and Druggist, 4 Northumberland Av., W.C.; Craven House, Kingsway, W.C.; and 36 Cranbourn St., W.C.

THOMAS CHRISTY & COMPANY
4, 10 & 12 Old Swan Lane, Upper Thames Street, E.C.

PRICES
Retail 4/- per bottle.
Wholesale 32/- per dozen.
in lots of 3 dozen, 5 % discount.

GREAT REDUCTION IN PRICES.

JACKSON'S

BENZINE "RECT."

PRICE DOWN 20%

3d. size reduced to **2/-** *doz.*
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YOUR PROFITS INCREASED IN PROPORTION.

T. JACKSON,
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Best Quality Only.

RANDALL & SON,

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Wholesale and Export Druggists,

SOUTHAMPTON

WHITE OILS, JELLIES,

Also YELLOW, GREEN, RED, &c.

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ÆSCULAPIUS

TALKS—No. 12

To those who were unable to see the wonderful self-fixing

VISCOSE BOTTLE CAPS

at the Show, I wish to send my free Booklet which explains all about the time, labour and money saved, and the numerous other advantages of Viscose Capping. Send me a postcard NOW and learn how to effect a new economy.

Viscose Development Co. Ltd.
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Superior Cleansing Antiseptic and Disinfectant.

USED IN ALL THE PRINCIPAL HOSPITALS THROUGHOUT THE WORLD.

LYSOL is not a sticky coal-tar Disinfectant composed of crude carbolic acid and unrefined cresols, but an absolute cleansing antiseptic and disinfectant recognised and approved by doctors and nurses.

SOLD ONLY THROUGH CHEMISTS. Embossed Show Plaques, richly enamelled, free on application.

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Lysol

"May Queen"

POWDERED TOILET SOAP.

DELICATELY PERFUMED.

Packed in Prettily Decorated Sprinklers.

Certified by Dr A B Griffiths of London, Public Analyst as the "VERY BEST TOILET SOAP." Antiseptic, Disinfectant & Hygienic.

Write for Sample Tin to **HENRY SHAW & Co. DUKINFIELD.**

The Lescol Perfumery Co.

FINEST CONCENTRATED PERFUMES

PARMA VIOLETS, JOCKEY CLUB, OPOPONAX, NEW MOWN HAY
RUSSIAN VIOLETS, SWEET PEA, WHITE ROSE, WALLFLOWER,
and all varieties of exceptional value.

Speciality: "NICOSIA."

No. AA 1 1 oz. ... **10/3** per doz. ***1/3** each | No. AA 3 3 oz. ... **23/3** per doz. ***2/9** each.
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No. AA 5 8 oz. ... **53/9** per doz. ***6/-** each.
*P.A.T.A. Prices.

We have been extensively advertising "NICOSIA" in the principal periodicals and magazines to create an interest which should lead to Chemists receiving inquiries for this speciality.

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GEORGE ST., CAMBERWELL GREEN, LONDON, S.E.

BEFORE posting your orders for

PETROLEUM JELLIES

(Yellow and White, B.P., and Commercial).

WHITE OILS

(Water and Half White, Various S.G.) and

WAXES

(Ceresine; Various Colours and M.P., Beeswax.)

Send for Samples and Prices to the actual Manufacturers,

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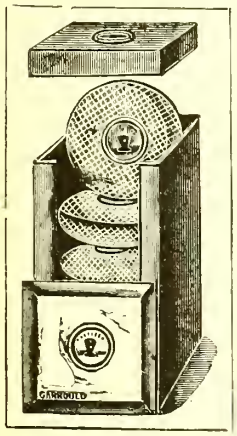
Registered Design No. 282,011.

COVERED SPONGES.

CHEMISTS SHOULD PLACE THEIR ORDERS WITHOUT DELAY.

One Firm sold over 500 OF THESE DIFFUSERS LAST SEASON.



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ADVANTAGES.

Are much cheaper than Honeycomb Sponges. Will last twice as long. No shredding. No stopping of bath pipes. Uniform in shape.

SMALL SIZE	MEDIUM SIZE	LARGE BATH SIZE
1s.	**1s. 6d.**	**2s.**

Subject to 33⅓ % Trade.

ALSO FIVE GOOD LINES THAT ALL CHEMISTS CAN HANDLE

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THE SECRET OF BEAUTIFUL HAIR.

"HARLENE."

FOR THE HAIR.

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No. 1 size	1/-	11/- doz.
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"UZON."

BRILLIANTINE.

Retail.	Wholesale.
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SHAMPOO POWDERS.

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Per box of 6 Powders.

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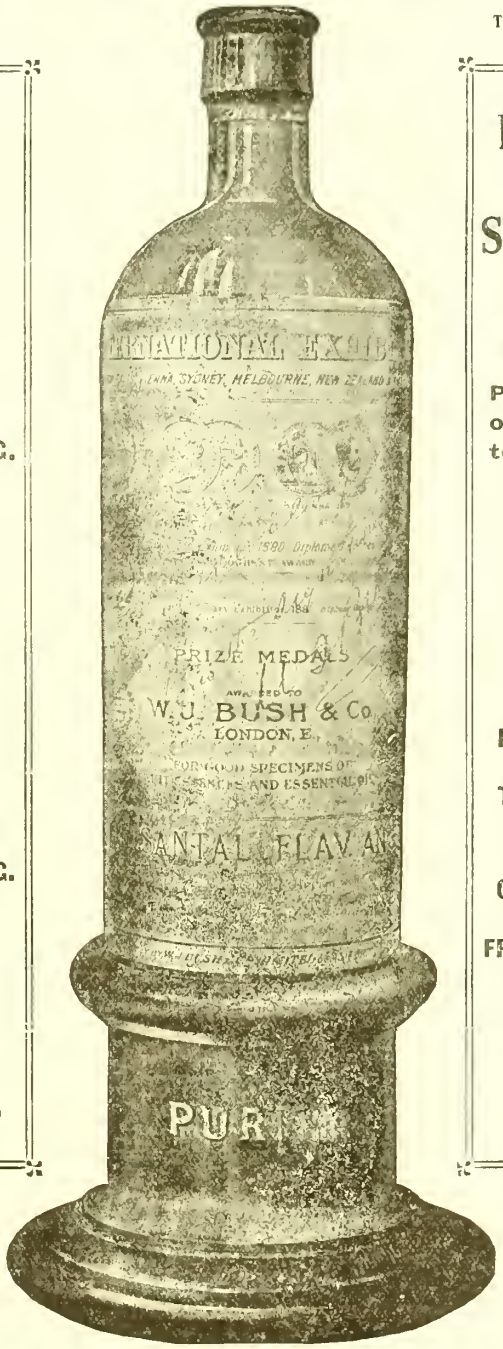

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FLORAL OTTOS
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And all other Natural Mineral Waters.

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The Best Material for Making GUM FROTH, LIQUID GUM, &c.

No Boiling or Filtering required. Absolutely Soluble. Better than Soap Bark and without its drawbacks.

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MANUFACTURED BY

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Special Terms to Wholesalers and large Consumers.

Wholesale Drug Houses are invited to write to

MELROSE-DROVER, LTD.

LEITH.

for Prices and Samples of NON-DEPOSITING

ORANGE WINE

B.P. 1898.

considered the best in the Market due to superior quality. Specially prepared, also for exportation.

A £100 Banknote

and other Prizes will be given

to purchasers during May and June of the new

"C" Size SPARKLET SYPHONS

AND BULBS

for the solution of a simple problem in Sparklet economics.

¶ £20 will also be divided amongst the dealers from whom the winners of the Cash Prizes purchase their Syphons.

¶ From statistics procured of competitions involving the outlay of an almost identical sum of money, we believe the entries will be very large.

¶ It is therefore important that intending competitors shall be able to purchase the "C" Syphon and box of "C" Bulbs (which is a condition of entry), without difficulty or delay.

¶ Pharmacists who have not yet placed their order are therefore respectfully urged to delay no longer but fill in and send us (pasted on to a postcard) the attached order form forthwith.

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To AERATORS, LTD., Upper Edmonton, N.

Please supply on the terms of your 1910 Home Trade Price List.

....."C" Syphons @ **39/-** ....."B" Syphons @ **22/6**

....Boxes "C" Bulbs @ **19/6** ....Boxes "B" Bulbs @ **13/-**

(Prices per dozen; Syphons net; Bulbs subject).

....Showcards. ....Bookmarkers.

....Leaflets. ....Price Cards.

(Advertising matter free).

Send also (free) Stand for Window Display when ready.

Name.....

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Date Send per

ESTABLISHED 126 YEARS.

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Celebrated Preparations are used and recommended at the principal Dairy Institutes, and have the largest sale in Great Britain.

TRADE MARK.
£300 IN PRIZES given annually to users of R. J. F. & B.'s preparations.

ANNATTO — Liquid and Cake. The Strongest and Brightest.
CHEESE RENNET — Strength 1/2000. (Liquid, Powder and Tablets.)
BUTTER COLOR — "Oleo" and "Sunbeam."
PRESERVATIVES — Powder and Liquid. (Guaranteed Harmless.)
ESS. OF RENNET
JUNKET POWDER
JUNKET TABLETS

LET US SEND YOU QUOTATIONS AND SAMPLES.

Manufactory—STEAM ANNATTO WORKS, HOXTON, LONDON, N.

To H.M. The King, The Empress of Germany, &c.

Brand's MEAT JUICE.

IN BOTTLES,
Price 28/- per dozen,
Less the usual discount.

BRAND & CO., LTD., MAYFAIR, W.

BRAND & CO'S. SPECIALTIES FOR INVALIDS.
CONCENTRATED BEEF TEA, VEAL, MUTTON & CHICKEN BROTHS; TURTLE SOUP & JELLY, CALFS' FOOT JELLY, MEAT LOZENGES
ESSENCES OF BEEF, MUTTON, VEAL AND CHICKEN
SOLE ADDRESS, 11 LITTLE STANHOPE STREET, MAYFAIR, W.

A. MILLAR & CO., LTD., DUBLIN

PURE ORANGE WINE

VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)
London Agent: JAMES STIRTON, 23 ST. DUNSTAN'S HILL, E.C.

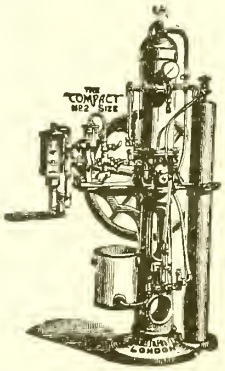
SODAWATER MACHINERY

THE "COMPACT" MACHINES
are specially designed for
CHEMISTS, GROCERS, RESTAURATEURS,
and everyone to whom space is an object, and can be used for filling Syphons, Codd's Bottles, or Cork Bottles.

OCCUPY LITTLE SPACE!
ARE READY FOR USE IMMEDIATELY!
REQUIRE NO FIXING!

Produce Soda Water, Lemonade, &c., of the highest class and greatest purity.

Write for Catalogue.



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Bottles, Boxes, Essences, and all Requisites for the Trade at Lowest Prices.

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SACCHARIN, *Made in England.*

Highest Possible Strength.—550 times sweeter than pure Cane Sugar. This strength is recommended in preference to any other.

Ordinary Strength.—330 times sweeter than pure Cane Sugar.

Soluble.—500 and 300 times sweeter than pure Cane Sugar.

Crystals.—450 times sweeter than pure Cane Sugar.

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N.B.—The Three last Strengths are Soluble in Cold Water.

THE SACCHARIN CORPORATION, LIMITED, are the owners of All Patents for the United Kingdom and Colonies, except India and Canada, for the commercial manufacture of Saccharin, and their Saccharin is the only Saccharin that can be purchased without RISK OF LEGAL PROCEEDINGS or the necessity of ANY INDEMNITY.

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Guests' Chemists' Confections

SPECIALITIES FOR

PHARMACISTS & CHEMISTS.

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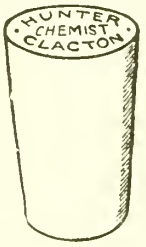

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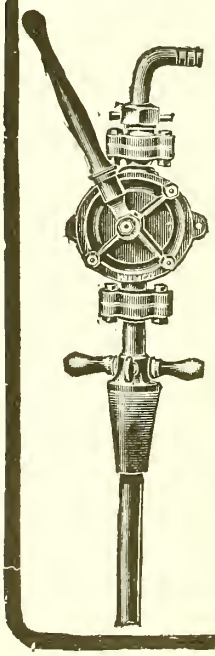

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Frame-Food Co., Ltd.
SOUTHFIELDS, LONDON, S.W.

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London. 1908.

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Medical men in your district order it often, and there is a large public demand. [18]

By Special Appointment to the King & Queen of Spain.

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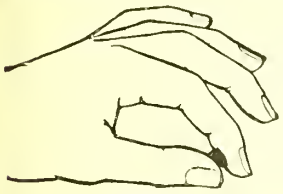

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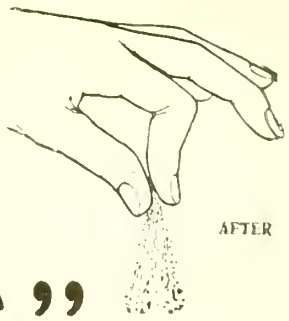

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PRICES. (In bottles of 100.)

	Per doz.
Acetanilide gr. 3	10/-
Acetosal gr. 5	10/-
Aloin Co.	12/-
Aloin et Jalapin Co.	12/-
Aloin, Strychnine and Belladonna	12/-
Ammoniated Quinine Comp.	16/-
Anæmia Comp.	9/-
Anti-asthma Comp.	23/-
Anti-constipation	12/-
Anti-syphilis	24/-
Aperiens Fort.	12/-
Astringent	12/-
Blaud gr. 5	12/-
Blaud Comp.	12/-
Blaud c. Arsenic gr. $\frac{1}{100}$	12/-
Bromoline gr. 3	30/-
(*25 % Bromine chemically combined with oil.*)	
Cascara gr. 2	16/-

	Per doz.
Chlorodyne (modified)	19/-
Digitalis Fol. Pulv. gr. 1	12/-
Ergotin gr. 3	22/-
Ergotin and Iron Comp.	22/-
Hepatic Comp.	10/-
Iodsam gr. 3	30/-
(*25 % Iodine chemically combined with oil.*)	
Laxative	12/-
Laxative Cold	12/-
Laxoin (synthetic aperient)	18/-
Marienbad Formula	10/-
(*Cascara, Bellad., Aloes, Rhubarb, Podoph.*)	
Pulv. Ipecac. Co. B.P. gr. 5	16/-
Opium gr. 1	16/-
Phenacetin gr. 5	10/-
Phenacetin and Caffeine	13/-

	Per doz.
Pil. Aloes et Ferri gr. 4	10/-
„ Colocynth Co. gr. 4	16/-
„ „ c. Hyos. gr. 4	16/-
„ Hydrarg. gr. 4	10/-
„ „ and Pil. Coloc. Co.	12/-
„ Plumbi c. Opio gr. 2	12/-
Pil Rhei Co. gr. 4	12/-
Podophyllin and Calomel	12/-
Quinine Sulph. gr. 1	13/-
„ „ gr. 2	13/-
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„ „ gr. 5	23/-
Salol gr. 2½	15/-
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(*Ferri, Quin., Zinct. Val. aa. gr. 1.*)	

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(2) You agree to get a lady member of your household to try it also.

(3) You agree to express in a letter to us your opinion and also the lady's opinion of the merits of "Daisyfoam" Shampoo.

(4) You agree to exhibit the box on your counter, and not to sell the remaining packets at less than 2*d.* each.

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Culture Media

Dry, portable and convenient products which enable the physician or bacteriologist to prepare one or more culture tubes expeditiously, with a minimum of trouble, and without waste.

To prepare a culture tube, take a clean test-tube, a plug of cotton wool, water, and the requisite 'Soloid' Product. Put the 'Soloid' Product into the test-tube, add the indicated quantity of water, plug the tube with wool sterilised by flaming, and immerse it in a water bath of boiling water to a level above that of the contained water. Allow boiling to continue for at least thirty minutes. No filtering is required.

'Soloid' Culture Media keep indefinitely, under proper conditions, and are therefore ideal for physicians who only require culture media at rare intervals, for medical officers of health in rural districts, and physicians resident in the Tropics.

'Soloid' Nutrient Broth,
'Soloid' Bile-Salt Agar-Agar (MacConkey) (Now Ready)

'Soloid' Nutrient Agar-Agar, 'Soloid' Bile-Salt Broth (MacConkey), and 'Soloid' Nutrient Gelatin (*in course of preparation*)

In tubes of six

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1/- size, **9/-** doz.; **2/-** size, **18/-** doz.; **3/-** size, **27/-** doz.

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GOLD MEDAL AWARDED HEALTH EXHIBITION, LONDON.

The *British Medical Journal* says: "Benger's Food has by its excellence established a reputation of its own."

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INVALIDS AND THE AGED.

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BENGER'S FOOD, Ltd., MANCHESTER,

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ON THE P.A.T.A. SHOWCARDS & HANDBILLS ON APPLICATION.

THE PICK OF OUR "EXHIBITION" LINES.

CIRENGOL.
The Green Fly Killer that appeals to millions at this season. We have irrefutable testimony as to efficiency & saleability.
UNIQUE CARDS.
6d. tubes, **4/-** doz.

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An exceptionally cheap and attractive line in show boxes of ½ doz. Just the thing for the holiday season.
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Another extraordinarily cheap line, with ground stoppered bottles and aluminium screw caps. Powerful & pleasant. A good 1/- line. **4/-** doz.
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Pocket Insect Bite Reliever in pocket dropper bottles in display stand. New scientific poster.
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You can Sell them all.

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OLD SWAN LANE, LONDON, E.C.

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A Weekly Journal of the Chemical and Drug Trades
and of
British Pharmacists throughout the Empire.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the chemical and drug trades of the British Empire. It is adopted as an official journal by seventeen Chemists' Societies in Australia, Ireland, New Zealand, South Africa and the West Indies, and its paid-in-advance circulation in Great Britain and all Countries having business relations with the British Empire is intrinsically and numerically unique.

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If not, you will find it well worth while. This method of advertising has brought business in cases where other means have failed.

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The only proviso is that the inset must be the size of THE CHEMIST AND DRUGGIST page, and must bear no imprint. No perforation is allowed.

The next opportunity for Inset-distribution is the Summer Issue of July 30, and the Publisher will be pleased to give firms expert advice and assistance regarding methods of production and cost of distribution.

Advertisers who desire to try the excellence of this method of introducing goods to the drug-trade should communicate with the Publisher, *C. & D.*, 42 Cannon Street, London, E.C.

Summary of this Issue.

The more notable items only are dealt with.

Articles and Communications.

Several new formulas are printed on p. 57.

The Board of Customs and Excise has issued a regulation as to provisional approval of methylating premises (p. 50).

King Edward's opsonic treatment "kept him in excellent health for no less than fifteen months," says Queen Alexandra (p. 50).

Mr. R. C. Cowley, of Brisbane, writes in regard to the cajuput oil distilled in Queensland, which is colourless, as copper apparatus is not used in distilling it (p. 62).

Our cartoonist shows the finish of the race for the Epsom (Salts) Stakes, a rhymer communicates his thoughts on the event, and we award prizes to seven postcard competitors (p. 51).

The annual meeting of the American Pharmaceutical Association has been held unusually early this year. We report it, and give abstracts of fourteen of the communications (p. 53).

The attack on salt bids fair to develop into a new cult, says "Xrayser II.," who also writes about English grown saffron, Sudan gum, and the Pharmaceutical Society's annual meeting (p. 47).

The increase in the membership of the Pharmaceutical Society revealed by the voting is *one*, not "hundreds." This and other fallacies heard at the annual meeting are exposed in an article beginning on p. 48.

The Phœnix is discussed by correspondents, who add to what "Xrayser II." said on the subject last week. Mr. Dott writes further in regard to the B.P. as a standard, and other subjects are dealt with in our correspondence columns beginning on p. 63.

The questions of dispensing by doctors and prescribing by chemists are on the way to solution, the British Pharmaceutical Conference and British Medical Association (jointly) having conferred on the first of them, while the General Medical Council has had the question of unqualified medical practice before it this week. See our comments on pp. 49-50.

The Week's News.

Another two Pharmacy Act cases have been heard in Metropolitan districts (p. 41).

The pass-list of the Spectacle Makers' Company's last examination is printed on p. 36.

Cinematograph exhibitions with non-inflammable films are outside the Cinematograph Act (p. 41).

Mr. L. E. R. Surtees and Mr. R. C. Crawford get the Corner for Students prizes this month (p. 34).

Boots Cash Chemists (Northern), Ltd., has been registered to trade in Great Britain *and Ireland* (p. 42).

Spirit produced in the Transvaal is subject to a rebate of 1*s.* The "Gazette" order to this effect is on p. 39.

We report eight meetings of Chemists' Associations (mostly annual) and the annual meeting of the Drug-trade Appeal Fund (pp. 55-6).

The pharmaceutical curriculum has been considered by Swiss authorities, and their interesting conclusions are reported on p. 40.

A Pure Food Exhibition held in London this week is notable for a display of out-of-date adulterants, which has called forth protests by those who know better (p. 57).

The Chemists' Defence Association is getting rich. Although it paid 424*l.* in damages for members last year, it had more than that as a balance—viz., 625*l.* See annual report on p. 56.

We report the ninth Convention for the Revision of the United States Pharmacopœia held at Washington this month. Dr. H. W. Wiley was elected President of the Convention in succession to Dr. H. C. Wood, and Professor J. P. Remington was re-elected Chairman of the Revision Committee (p. 52).

Trade and Market Matters.

A proposal is on foot to restrict the French synthetic camphor company known as "Le Camphre" (p. 61).

Quiet conditions prevail on the markets, with the bulk of price-alterations in buyers' favour. These include quicksilver, mercurials, castor oil, opium, turpentine, indiarubber, thymol, and vermilion. Buchu, balsam peru, and jalap are all firm. Shellac is dearer on speculative activity. New otto and opium crop prospects remain good (p. 58).

B

Corner for Students.

Conducted by Leonard Dobbin, Ph.D

All communications for this section should be addressed thus "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Report on May Analytical Exercise.

THE powder distributed to students on April 27 consisted of equal parts by weight of manganous sulphate, ammonium ferric sulphate (iron alum), and magnesium hydroxycarbonate. The calculated composition of such a mixture is :

Mn	6.6
Fe	3.9
Mg	8.5
NH_4	1.2
SO_4	24.8
CO_3	15.6
OH	3.0
H_2O	36.4
	100.0

The powder also contained, as impurities, zinc in very small quantity and a recognisable trace of a chloride. Samples of the powder were distributed to forty students, and fifteen reports were sent in for examination. All of our correspondents succeeded in detecting the presence of iron, although a few failed to recognise that it was present in the ferric state. The failures in the detection of the other constituents of the powder were :—(*a*) Metallic radicals : Manganese, 4 ; magnesium, 1 ; ammonium, 9. (*b*) Acid radicals : Sulphuric, 1 ; carbonic, 2. Seven students failed to report the evolution of water on heating the powder in a dry test-tube. Only two students reported the presence of the small quantity of zinc, and one of these evidently mistook for zinc sulphide a precipitate which consisted for the most part of manganous sulphide.

This exercise was designed for junior students and was simpler, on the whole, than the majority of the exercises of the recently completed tournament series. A few simple preliminary tests gave most useful information, and several students started the systematic examination knowing that the powder contained manganese, iron, and ammonium, along with the radical of carbonic acid and probably also that of sulphuric acid. The evolution of water on heating the powder had also been noted in some instances. With this information at disposal, it is evident that there was not very much left to be discovered in the systematic analysis, so far as the main constituents were concerned.

The powder dissolved completely in dilute hydrochloric acid, with evolution of carbon dioxide, and yielded a solution from which a slight precipitation of sulphur took place on the addition of hydrogen sulphide. It was only in one or two instances that the formation of this precipitate of sulphur was reported, or that any attention was paid to it if observed. "No precipitate" was the nearly uniform report (even including one case in which the opalescence was observed), and yet the separation of sulphur is a noteworthy and, so far, characteristic accompaniment of the oxidation of hydrogen sulphide in acid solutions by a variety of oxidising agents, such as ferric salts. It is, to say the least, inexact to report "no precipitate" simply because a precipitate which really is formed does not contain any sulphides of the copper and arsenium groups, and an inaccurate description of this kind may readily be taken as indicating insufficient care in observation.

Those students who failed to detect manganese should, for the future, make it a point to apply, at some stage, the very delicate test of fusion with sodium carbonate and potassium nitrate with a view to producing the characteristic green manganate. Further, they should note that manganous hydroxide is liable to precipitation to a large extent, or even completely, along with ferric hydroxide, on the addition of ammonia solution as group reagent for metallic radicals of the iron-group, even in the presence of ammonium chloride in considerable quantity, if the subsequent filtration is not carried out with all possible expedition. In a few instances in the present exercise t manganese appears to have been precipitated so complete along with the iron, probably in consequence of undue del in filtration, that the filtrate gave no precipitate of ma ganous sulphide on the addition of ammonium hydr sulphide. Had the fusion test for manganese, referred above, been applied as a preliminary test, it is scarcely po sible that any students could have overlooked the we marked indications which it gave, and that the mangane should have escaped detection altogether.

The quantity of zinc present in the powder was excee ingly small, and it was scarcely expected that its presen would be detected at all, since we do not know of ar test for zinc approaching in delicacy the manganate te for manganese. The fact that zinc was detected and su ficiently identified by even a single student was therefo a result which was all the more gratifying under the circun stances. Our regret in the matter is that the one observ who handled this part of the exercise so skilfully, faile on account of several minor shortcomings elsewhere, t attain a place among those highest up in the list.

The quantity of ammonia yielded by the powder was n large, but its evolution was capable of being observed wit out any special delicacy of treatment ; and although we, course, recommend that the liberation of and the testing f ammonia should always be carried out with the precautio which have been described repeatedly in this column, w have found that less minute attention to these precautio did not, in the present instance, seriously affect the observ tion of the fact that ammonia was evolved in easily recogni able quantity. From the many failures it would therefo appear that the majority of our correspondents do n devote sufficient attention to testing for ammonia, or th such tests as they employ for its detection are applied in very rough manner which can only be successful when larg quantities are concerned. The devotion of some little tin and attention to this subject would well repay those student who desire to cultivate habits of close and accurate observ tion of analytical matters.

In more than one of the reports submitted this mont instances are furnished of a description of error closel akin to the very common one of reporting a substance t be insoluble in water if it does not dissolve completely even though no steps have been taken to ascertain wheth or not it is partially soluble. This error consists in assum ing that, for example, a precipitate is insoluble in hydr chloric acid or some other solvent when it does not dissolv completely, and in reporting that this "insolubility proves the absence of a variety of substances for whic no test of any description has been made. To illustrate Barium nitrate has been added to a neutral solution an is reported to have produced a white precipitate, "i soluble in HCl." The inference is made, and correctl made, that a sulphate is present, but it is further state that the result proves the absence of phosphates, oxalate carbonates, sulphites, etc., because white barium phosphat oxalate, etc., are soluble in dilute hydrochloric acid, an this statement is made in spite of the fact that no step have been taken to ascertain whether or not some portio has dissolved. The mere fact that part of a precipitat remains undissolved is not evidence that none has dissolve and should not be adduced in support of conclusions whic would require the latter to have been established.

PRIZES.

The first prize for the best analysis has been awarded t

LAURENCE E. R. SURTEES, 14 Newgate Street, Morpeth

The second prize has been awarded to

ROBERT C. CRAWFORD, c/o F. R. Parker, 130 Westgat Road, Newcastle-on-Tyne.

First Prize.—Any scientific book that is published at price not greatly exceeding half-a-guinea may be taken as first prize.

Second Prize.—Any scientific book which is sold for abou five shillings may be taken as a second prize.

The students to whom prizes are awarded are requeste to write at once to the Publisher naming the book or book they select.

Marks Awarded for Analyses.

1. *Correspondents who are unqualified:*

Validol (non-competing)	96	Oxygen	75
L. E. R. Surtees (first prize)	95	Polonium	67
R. C. Crawford (second prize)	94	Rex	64
Neptunia	93	Carlton	60
Fromage	79	Levis	59
Sacco	76	Crith	58
		Vol	32

2. *Correspondents who are qualified:*

Cobalt	89	Nitrax	68

To Correspondents.

L. E. R. Surtees.—Note that a freshly prepared solution of potassium ferricyanide gives a brown coloration with ferric solutions; a green coloration is only obtained when an old solution is employed.

R. C. Crawford.—We applied Carnot's test in searching for potassium, but did not obtain any positive result.

Neptunia.—We understand what you mean, but do not commend your mode of expressing it when you report the result of adding hydrogen sulphide to the original hydrochloric-acid solution as "No ppt. Deposit of S." A deposit of sulphur is a result of the formation of a precipitate of that substance. You could scarcely expect to find ferrous iron in the residue obtained by fusing an iron-group precipitate with sodium carbonate and potassium nitrate.

Fromage.—You report that potassium ferricyanide "gave no coloration" with a hydrochloric-acid solution of the powder. If you really tried this experiment and obtained the result stated, your ferricyanide solution requires attention.

Sacco.—It was incorrect to describe the powder as "insol. in H_2O," since more than one-half of it dissolved easily in water.

Oxygen.—You have gone astray in testing for a carbonate. It is not admissible to apply tests for a carbonate to the solution obtained by boiling a substance with sodium carbonate. Read also the reply immediately preceding.

Polonium.—As you failed to obtain any precipitate on adding ammonium hydrosulphide as a group reagent, it would seem that you had got the whole of the manganese precipitated along with the iron on adding excess of ammonia solution. Read the reference to this matter in the general remarks. In testing for acid radicals you appear in some cases to assume too readily that a reaction which proves the presence of one radical also proves the absence of a group of others.

Rex.—The tests you applied to the original powder to ascertain whether the iron was present as ferrous or ferric salt led you to a conclusion which was just the reverse of the actual fact; further, the results of these tests, as you report them, could not have been obtained under the circumstances you describe.

Carlton.—We take it that you are a beginner, but, if so, you must learn at the outset not to add the various group reagents to separate portions of the original solution, and not to ignore the possible interaction of metallic radicals belonging to preceding groups when adding the group reagents for later groups. Your supposed nickel sulphide was simply ferrous sulphide.

Levis.—The sulphur dioxide which you observed when heating the powder was produced by the decomposition of the iron alum. Do not use magnesium sulphate as a test for a carbonate until you have studied the reaction and learned by experience the exceedingly narrow limits of its applicability for the purpose.

Crith.—We could not obtain the reactions which you describe as indicating the presence of a sulphite. The pungent odour perceived on heating the powder with concentrated sulphuric acid was no doubt due to that reagent alone.

Vol.—The powder did not contain a phosphate; but as you supposed it did, and treated it accordingly, we may refer you to our remarks in this column last month regarding the undesirability of further adding, as you did, a soluble phosphate to a solution from which you are just about to remove the phosphoric-acid radical. The procedure may complicate, but cannot aid, the analysis.

Cobalt.—The green flame-coloration you noticed was most likely due to manganous chloride (although you do not say that the powder had been treated with hydrochloric acid before trying the flame-test). Your position in having proved the presence of the small proportion of zinc is unique.

Nitrax.—You will do well to avoid the presence of hydrochloric acid and of chlorides in solutions to be tested for phosphates by means of ammonium molybdate, as these interfere seriously with the delicacy of the test. You describe—probably by inadvertence, but all the same incorrectly—potassium ferricyanide as yielding a dark-blue precipitate with a hydrochloric-acid solution of the powder.

English and Welsh News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Brevities.

The Yarborough Oil Mills at Brigg were destroyed by fire on May 23. The damage is estimated at 30,000*l*.

The Kent county analyst (Dr. M. A. Adams) examined forty-four samples of drugs during the past quarter, all of which were genuine.

The Hackney analyst reports that the following samples taken during last quarter were all genuine: mustard, 9; olive oil, 6; and pepper, 2.

Mr. J. Fillingham, Ph.C., President of the Grantham Traders' Association, has consented to act as secretary of a committee to promote a shopping week in the locality.

The Accrington weights and measures inspector (Mr. R. Sinkinson) states in his annual report that of the 190 apothecaries' measures examined during the year, none were incorrect.

The Carmarthensire Licensing Committee have confirmed the medicinal-wine licence granted to Mr. John Lewis, Campbell House, Llandebie, by the Ammanford Magistrates on March 5.

The National Association for the Prevention of Consumption have organised a tuberculosis exhibition, to be held in the Public Hall, Worcester, from June 3 to June 9. The Mayoress of Worcester will open the proceedings. A series of lectures has also been arranged.

At Stoke Police Court on May 19, Mr. W. H. Kemp, chemist and druggist, 38 High Street, Fenton, was fined 40*s*., and costs (in all 4*l*. 11*s*.), or in default to undergo a month's imprisonment, for giving a sound thrashing to Philip Clifford Weaver, his errand-boy, who had been "cheeky" to his assistant and housekeeper.

At the St. Austell County Court on May 18, Judge Grainger awarded Mr. George Findlay, chemist and druggist, Fowey, 12*s*., and costs, for doctor's fee, bandages, etc., due in respect of attention to an injured seaman brought by Mr. H. G. Scaddon and a friend to his shop for treatment. Mr. Scaddon and his friend were held to be liable.

The pharmacy of Mr. G. H. Appleby, chemist and druggist, in High Street, Neyland, Pembroke Dock, was among the shops whose windows were smashed on May 21 by seven soldiers belonging to the Welsh Regiment. The offenders, who said they had done the damage because they were sick of Army life, were sentenced to hard labour, ranging from three months to six weeks.

Mr. Thomas Beecham has told a Press representative that he does not anticipate keeping his losses on this summer season of opera much under 10,000*l*. The average cost is 600*l*. per performance, and the surplus does not pay for the mounting. Nevertheless he is determined to establish a permanent opera house in London, and, if necessary, to spend 500,000*l*. in doing it.

At Bow Street Police Court on May 22, Armand Gilbert (52), Belgian, described as a traveller, was sentenced to six months' imprisonment for attempting to obtain money by false pretences. Prisoner was also recommended for deportation. It was alleged that defendant had attempted to sell a silversmith some crystals for colour-gilding on metal. A detective ascertained from the chemist that he had supplied the prisoner with one ounce each of potassium ferrocyanide, potassium cyanide, roche alum, and alum.

Mr. Charles A. Steward, chemist and druggist, of 27 High Street, Worcester, was one of seven defendants proceeded against at the Worcester County Court last week by the London Geographical Co., who claimed for the value of a copy of a map of Worcestershire and Herefordshire. The defendants had been asked to sign a document to show that there was a general demand for a fresh map, and no order for maps was given. Maps were delivered, nevertheless, and for these the company sued unsuccessfully. The company was ordered to pay defendants' costs.

King Edward's Funeral.

In passing over the route traversed by the various Royal processions last week, the chemists' establishments interested a *C. & D.* representative. Only one is found on the journey from Buckingham Palace to Westminster Hall; this is the shop in Bridge Street, Westminster, lately purchased from Powell, Ltd., by Boots, Ltd.: from this all the historic and mournful pageants were visible. The funeral procession passed before the premises of Messrs. Pope Roach & Son and Lewis & Burrows, in St. James's Street, and was visible from Messrs. James Epps & Co.'s, Jermyn Street. In Piccadilly, Messrs. Perkins & Co. occupy a fine frontage, and in Edgware Road Messrs. Swire, 32; Allshorn, 51; Boots (with a corner position and extensive frontage), C. J. Miles, Dodd, and Lewis & Burrows. In Praed Street Messrs. Allen, Ltd., and Boots, though not on the actual route, are only a few yards distant, north and south respectively. On all the above appropriate mourning was displayed. Among the first of the Union Jacks hoisted at half-mast on the death of the King was that over the premises of Messrs. Hooper, Struve & Co., Pall Mall. To Lieut.-Colonel Clifford Probyn, one may say, the loss was almost personal. As Mayor of the City of Westminster during the Coronation year, the gallant Colonel was brought officially into close touch with King Edward VII. The Mayoral reception at the Royal Botanic Gardens, Regent's Park, was one of the events of that historic year.

Sale by Auction.

As announced in our Coloured Supplement last week, the business carried on by Mr. J. E. Vause, chemist and druggist, at 26 Hawley Street, Margate, for about twelve years, was offered as a going concern on the premises by Mr. C. H. Cartwright, 70 Finsbury Pavement, London, E.C. The returns were stated to have averaged from 15*l.* to 20*l.* a week. The lot was "put in" at 100*l.*, but, as no bid followed, the stock, fixtures, and fittings were sold in lots as catalogued. Competition was not keen, so it was a real bargain day. The fixtures were principally made by Bygrove, and were in excellent condition. A 10-ft. mahogany counter fitted with five glazed doors, and the back fitted with shelves, was sold for 3*l.* 5*s.* A 6-ft. circular front show-case, 1*l.* 15*s.* A 5-ft. 6-in. display cabinet, 9 ft. high, fitted with glass door and shelves, 2*l.* 15*s.* A 6-ft. mahogany counter, the front fitted with glass doors and shelves, with shelves at the back, 2*l.* A handsome mahogany cabinet, 22 ft. 6 in., fitted with drawers, shelves, and cupboards, 5*l.* 10*s.* The shop-rounds were sold with contents, and four dozen assorted 10, 20, and 40 oz. went for 22*s.* One dozen 3-lb. ointment-pots with gilt labels realised 7*s.* Three dozen assorted patents, 7*s.* One bottle eau-de-Cologne, two lavender-water, a scent-sprayer, and about twenty bottles of various perfumes, 3*s.*; and a dozen hypodermic syringes, 2*s.*

Fires.

A disastrous fire occurred on May 19 at the Parade Pharmacy, Cambridge Road, Norbiton, the proprietor of which is Mr. Max Wiedenfeld. The outbreak occurred at 2.30 A.M., all the family having to leave the burning building in their night attire. The shop and room at the rear were burnt out, and the stock, valued at 350*l.*, was completely destroyed, but both premises and stock were insured.

A fire broke out in Australian Avenue, London, E.C., on May 20, in premises next door to those occupied by the "Securitas" Non-inflammable Products Co., Ltd., to which it spread, doing some damage. It is interesting to note that a large number of packages of "Securitine" dry-cleaning fluid were licked by the flames, and the non-inflammable nature of this benzine substitute was thus definitely established.

Contracts.

India Office.—Spencer, Chapman & Messel, for sulphate of copper.

Admiralty.—W. C. Bacon & Co., F. W. Berk & Co., G. Gibb & Finch, Ltd., and R. Cruickshank, Ltd., for acids.

Winchester Guardians.—Mr. L. Arden, Ph.C., Winchester, has been appointed chemist to the workhouse for a year.

Southend-on-Sea Town Council.—Burt, Boulton & Haywood, Ltd., A. C. Young & Co., and Newton, Chambers & Co., for the supply of disinfectants during the ensuing two years.

Hull City Council.—Major & Co., Ltd., Hull, for liquid carbolic acid (95 to 97 per cent. guaranteed), at 11*d.* per gal.; Adcocks, for carbolic disinfecting liquid (20 per cent.), at 7*d.* per gal.; and the Alpine Co., for sulphur, at 7*s.* 4*d.* per cwt.

Aylesbury Rural District Council.—Mr. E. T. Palmer, chemist, Aylesbury, for Izal disinfectant-preparations. The Council have hitherto obtained their supplies direct, but on Mr. Palmer pointing out that he could supply the preparations at the same price, the Council decided to obtain them locally.

Poor-law Notes.

Mr. H. E. Peerless has been appointed by the Guardians of the St. George-in-the-East parish as dispenser for the outdoor poor.

Mr. J. Juleff, chemist and druggist, has resigned his appointment as dispenser at the Infirmary of the Parish of Camberwell.

At the last meeting of the Sheffield Guardians the dispenser (Mr. H. Antcliffe, chemist and druggist) reported that the cost of drugs and dressings had increased by 100*l.* as compared with the previous year. However, there had been 176 more patients in the hospital, and the increased duty on rectified spirit alone accounted for over 90*l.*

Spectacle-makers' Company.

The following is the pass-list of the recent examination held at St. Bride Institute, London, E.C.:—

Ashover, S., Walthamstow
Brownridge, A. E., Notting Hill
Burlingham, S. S., King's Lynn
Butcher, S. R., Honor Oak Park
Ellis, R. S., Aberystwyth
Harris, John, Exeter
Hopkin, L., Hammersmith
Lewis, Thomas, Brecon
Llewellen, J. H., Oswestry
Martin, S., Willesden Green
Moore, F. A., Gravesend
Norman, P. W., Hampstead
Payne, E., Oakham
Picton, A. W., Hove
Rees, W. E., New Tredegar
Stansfield, F., York
Stoven, J., Eastbourne
Stutter, J. W., Stamford Hill
Thomas, F. W., Leytonstone
Turner, G. V., Hunstanton
Twitcher, G. J., Edgware Road
White, W. E. J., Wakefield

Mr. John Harris has been awarded the first prize given by Mr. J. H. Raphael; and the Master's prize, given by Colonel Harry Lawson, has been won by Mr. J. W. Stutter.

Labelling Headache-powders.

At the Westminster Coroner's Court on May 23, Mr. J. Troutbeck inquired into the death of a young woman named Jane Smart Ross, of Bayswater. Deceased, who was in service as a cook-housekeeper, had been in the habit of taking headache-powders, and it was stated she had taken three "instantaneous headache-powders" at intervals of two minutes not long before her death. The Coroner said the powders were not labelled "Poison," and he did not think he had ever come across a case in which such an article was sold without the name of the vendor being on the label. Dr. Simmons deposed that deceased, when admitted into St. George's Hospital, was in an almost comatose condition. His analysis of one of the powders showed that it contained antifebrin. Such a powder might give some relief, but there was a temptation to take more and more until they became dangerous. A *post-mortem* examination revealed general tuberculosis in all the organs, including the brain. He was satisfied that death was due entirely to natural causes. The Coroner remarked that what these powders contained was entirely unknown to the general public, who had no warning that they were of a dangerous character. Anyone with the power of observation could see that there was an increase in drug-taking—innocently at first, but afterwards leading to a dangerous habit. In this case the powders seemed to have done no harm, death being due to natural causes. A juror, noting that the powders produced bore no name or address, suggested that all such preparations should be so labelled.

A Baby's Death.

The death of an infant seven days old after getting "aniseed syrup" was investigated by Mr. S. F. Butcher, coroner for Bury (Lancs), on May 19. Walter Field, the father of the child, stated in evidence that it had cried almost continuously since its birth, and on the day before its death he sent a little girl for syrup of aniseed to Mr. William Heywood, chemist and druggist, 41 Princess Street, Bury, and gave the child half a teaspoonful. The child slept afterwards and took the breast twice. On Thursday afternoon Dr. Lucas was sent for, as the child looked ill and clammy. Mr. Heywood stated in his evidence that he supplied a pennyworth of aniseed syrup to the little girl mentioned by Field. He gave half an ounce. Had he been told the age of the baby he would not have given the syrup, as there would be about one-fifth of a grain of opium, or, roughly, two grains of poppy extract in the bottle. Detective-Sergeant Gregson brought back the bottle on Thursday night. It then contained 120 drops —half the original amount. The Coroner examined the bottle, and expressed the view that the word "Poison" after the description of doses was not prominent enough, and remarked that he would never read it where it was. He asked: Have you got the section? It has to be labelled in a prominent way, has it not? Witness: No; to be labelled with the word "Poison." Coroner: I should not call that a label, frankly. This is now labelled as you sell it? Witness said "Yes," and added that the syrup had been sold twenty-five years to his knowledge, and for many years before that. It had always been labelled in this way by him. The Coroner: "I should counsel you to label it more prominently, and, further, have specific directions that no child under a month old should have it given at all." In answer to a juryman, witness pointed out that poisons had to have a special label, but for medical preparations the trade thought the label used was sufficient to warn people without alarming them. After further evidence, including that of Dr. France, who said the *post-mortem* appearance was consistent with death from asphyxia or narcotic-poisoning, the further hearing was adjourned.

Cricket.

Allenburys C.C. *v.* Primrose C.C.—This match, played at Hackney Marshes on May 21, resulted in a win for the former team by 38 runs to 26.

As briefly mentioned in the *C. & D.* last week, the B.D.H. cricket eleven travelled on Whit-Monday to Nottingham to revenge their last year's defeat by the Leicester and Notts combination. After a stroll round the town and luncheon, play commenced about 2 P.M. Winning the toss, the London team took the field, and managed to dismiss their opponents for 74, of which Chell (Leicester) was responsible for 38, Cullen obtaining most of the wickets. B.D.H. then proceeded to put together the tidy score of 125, of which Roger Harvey contributed 28 and Parker 20, Meadows and Chell dividing the wickets between them. The teams then dined in the Welbeck Hotel. In the unavoidable absence of the President (Mr. Ashby) of the N.C.A.C., Mr. Parkes took the chair, supported by Mr. Alan Francis, Mr. Roger Harvey, Mr. E. Daniel (oldest Barron-Harvey's representative), Mr. Goldsworthy, Mr. Fry (Leicester), and Mr. Prince. After speeches of welcome by Mr. C. F. Carr and Mr. Fry, the toast of the health of the visitors was duly honoured. This was acknowledged by Mr. Harvey and Mr. Francis, the latter inviting the N. & L. teams to London next year to decide the rubber. The Chairman then presented a gold watch to Mr. H. C. Prince, who has been Secretary of the Notts Club since its inception. Mr. Fry, on behalf of the Leicester Club, told how Mr. Prince had done everything possible to add to the enjoyment of their matches. Mr. Prince acknowledged the gift in a neat speech. The proceedings concluded with the toast of the Chairman's health. [On Wednesday morning, May 18, a cow which had heard of the gold watch visited Mr. Prince's shop at West Bridgford to inspect it. It had a good look round the pharmacy, and, guided by the driver, made her exit quite gracefully—for a cow.]

Irish News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Brevities.

Messrs. Fannin & Co., 41 Grafton Street, Dublin, surgical-instrument makers, are at present having important alterations made in their premises.

At a meeting of the Newry Agricultural Society complaint was made that sheep-dipping at public stations tends to spread sheep-scab instead of diminishing the disease. It was stated that this complaint is general.

The Local Government Board have at last consented to the Mohill drug-contract being given to Mr. A. Burns (see *C. & D.*, May 7, p. 688). The Board were influenced by the evidence submitted them of delay on the part of the previous contractors.

The Cork Guardians still persist in their decision to award the drug-contract to a local firm (see *C. & D.*, May 7, p. 688). The Guardians are now asking the members of Parliament for the City to use their influence with the Local Government Board.

The Apothecaries' Hall of Ireland, Mary Street, Dublin, have obtained contracts for the ensuing three years from the War Office as drug-contractors for his Majesty's army in Ireland, and from his Majesty's Prison Board as drug-contractors for prisons in Ireland.

King Edward's Funeral.

The King's funeral was observed by the chemists and druggists of Belfast and North of Ireland generally by closing of their premises in some cases all day, and in others till the evening. The Ulster Drug-trade Association issued a notice to its members containing a suggestion that shops should be closed at least from 12 noon till 4 P.M.—Sir William Whitla, L.P.S.I., Belfast, was among those summoned to attend the King's funeral at St. George's Chapel, Windsor.

Trade Changes.

Mr. W. R. H. Orr, registered druggist, Ormeau Road, Belfast, has disposed of his branch, 64 York Road, Belfast, to Mr. W. Gardner.

Mr. W. J. May, formerly drug-traveller for Messrs. J. & J. Haslett, Ltd., North Street, Belfast, has purchased the business carried on at Whitehead, near Belfast, by Mr. George Hamilton, druggist.

Mr. Samuel Smith has acquired the business hitherto carried on at 67 Castlereagh Road by Messrs. Samuel Gibson & Co., Ltd., druggists, and has transferred it to new premises across the street. Mr. Smith was Messrs. Gibson's manager in this branch.

Burglary Charge.

At the Northern Police Court, Dublin, on May 16, David Gordon was charged with having broken into the shop of Messrs. Murphy & Co., 48 North King Street, at various times during the last six months, and stolen soap, cocoa, embrocation, Lemco, lime-juice, tooth-brushes, etc. Goods had been missed from the shop since Christmas, and on May 3 a detective, who was watching, saw prisoner enter the shop by means of a key and open a showcase. Articles found at the residence of the accused were identified by Mr. Middleton, the manager for Messrs. Murphy. Prisoner was remanded.

Scots News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Aberdeen.

Mr. James Spence, chemist and druggist, has taken over the business of Mr. Robert Halley, 120 High Street, Elgin.

Mr. Henry Milne, chemist, King Street, who sold his business about a year ago and opened a new shop as optician, has left Aberdeen for the West Country.

Mr. P. R. G. Laing, chemist and druggist, who has obtained an engagement as chemist with the Colombo Apothecaries' Co., Colombo, served his apprenticeship with

Mr. Watson, Castle Street, Aberdeen, and has been for some time with Mr. Coutts Michie, Kentish Town, London, N.W.

Dundee.

Messrs. Davidson & Gray, chemists, Nethergate, have had plans prepared for an addition to their premises. The front of their retail shop and two adjacent shops are one story only in height at present, and it is intended to put a story on the top of these.

Messrs. Wm. Doig, Charles Kerr, D. H. Ferrier, and D. J. McKinnon, chemists, took part in the procession and official service in St. Mary's Parish Church, Dundee, on Friday, May 20. Messrs. Russell & Son, Nethergate, had their premises draped on the occasion.

Co-operative Druggery.

At a special meeting of Kelty Co-operative Society, Ltd., held last week to consider a requisition to start a drug department, reports from Drs. Keay and Moir were read, in which they expressed opinions against opening such a department. Dr. Sanjana strongly recommended the Society to open a drug-shop. A report from the Tillicoultry Society stated that the executive were fairly well satisfied with a turnover of 10*l.* per week. They ran the business with a moderate stock, and paid their chemist 3*l.* per week. In the course of a discussion, Dr. Sanjana said the doors of the Kelty chemists were closed to his patients, and it was possible that those patients would have to die without a drug from the Kelty chemists. The chemists put obstacles in the way of his getting medicine, because they wanted the people to pay for their medicine. On a vote being taken, it was decided by a majority that no drug department be started.

Edinburgh.

The staff of Messrs. Gibson & Co., chemists, Clerk Street and elsewhere in Edinburgh, had a picnic on Victoria Day.

There has been a considerable run on cort. quillaiæ recently, owing to a weekly "home journal" recommending it as a wash for the hair.

Mr. W. S. Glass, Ph.C., having accomplished the U.C.A.L. work for which he went to Sheffield, will return to his pharmacy in Edinburgh shortly.

Messrs. H. C. Baildon & Co., chemists, will remove their West End branch from 144A Princes Street to 26 Shandwick Place on Saturday, May 28.

The Edinburgh Chemists' Golf Club had play for the "Gibson" medal handicap over the Braids on Victoria Day, the results being: (1) Mr. Charles Stewart, 89, less 9, equals 80; (2) Mr. W. C. Weir, 83 scratch; (3) Mr. William Gibb, 89 scratch. A very thick, wetting fog prevailed during the play.

Mr. Victor Wright, chemist and druggist, gives a *résumé* of a recent cycling tour in the current number of the "Cyclists' Touring Club Gazette." Mr. Wright has journeyed awheel over a large part of Britain, and supplies information regarding districts which he has traversed to prospective tourists.

The marriage of Mr. W. B. Rawlinson, late of Hawick and of the Transvaal, now of Esk, Queensland, to Miss Laidlaw, of Hawick, was celebrated at Esk on April 4. Miss Laidlaw arrived in Queensland a few days before by the White Star s.s. *Runic*. The happy couple spent their honeymoon at the Tweedhead, a watering place on the New South Wales border. Mr. Rawlinson served his apprenticeship at Hawick with Mr. T. Maben.

Glasgow.

Mr. D. Munro, chemist and druggist, 166 Nithsdale Road, has removed to more commodious premises a few doors further down in the same road.

Mr. W. T. Perrins, chemist and druggist, has acquired the business of Mr. R. E. Johnstone, chemist and druggist, 1 Minerva Street, off Argyle Street, Glasgow.

Quite a large number of chemists have entered for the B.O.A. examinations, which are being held this week in the Y.M.C.A. buildings, Bothwell Street, Glasgow.

French News.

(From the "C. & D." Correspondent.)

The Funeral Day of Edward VII. was observed as a day of mourning by the British community in Paris, and practically all the wholesale and retail houses of our nationality were closed on that day, including the leading British pharmacies, such as Messrs. Roberts & Co.'s, rue de la Paix; Messrs. Nathan & Green's, rue Scribe; Dr. Douglas Hogg's, in the Avenue des Champs Elysées; and Messrs. Swann's, in rue Castiglione.

Obituary.—The death is announced at Nancy of M. Camille Brunotte, professor of botany at the School of Pharmacy of that town. He was fifty years of age, and had published a number of works on the flora of the Eastern region of France.—The death also occurred recently of M. Alexandre Leon Etard, one of the distinguished chemists of the Pasteur Institute, Paris, who was the author of a number of works on chemistry.

Experimental Chemistry.—As if it were a sequel to the terrible accident due to experimental chemistry reported last week, confusion and alarm were occasioned on Saturday afternoon, May 21, at the Paris Sorbonne by a terrific explosion, which literally shook the enormous building, seriously injuring M. Jolibois, a chemistry student, and M. Dunleyne, an assistant in the chemical laboratory, who were experimenting. When the commotion had subsided, it was found that both the laboratory experimenters were injured and unconscious, the assistant's state being particularly serious.

French Pharmacists in Session.—The thirty-third annual general meeting of the General Association of French Pharmacists was held a few days ago at the Paris School of Pharmacy, in the well-known Salle des Actes. Besides the usual reports, general and financial, the notice paper included the discussion of the protection of proprietary medicines, the formation of a commercial section of the Association, and certain modifications to its by-laws. A resolution regarding new proprietaries was also brought forward by the Norman Federation of Pharmacists. The Association is divided into eight federations, representing respectively the Centre, East, West, South-east, South-west, Picardy and Champagne, Normandy, and the Seine Inférieure and Eure, thus covering practically the whole of France. Each of these bodies musters from 200 to 1,200 members, while twenty-two local societies, representing nearly 2,300 members, are not affiliated to any federation. Among these is the Paris Syndicate of Pharmacists, which alone has 744 members. Voting is always proportionate to the number of members represented, but, among other things, the existence of a federation facilitates co-operative and united action in matters affecting local interests.

A Nun's Finance.—The sensation of the week in Paris has been the arrest of a nun known as Sister Candide for fraudulent practices. She has devoted herself to charity for many years past, and has raised very large sums of money by means of collections and lotteries for providing sanatoriums for tuberculous children and other charities. To raise further money she undertook selling jewellery on commission, but pawned a good deal of it, and this led to her arrest. A particularly sad incident in the case has been the suicide of Dr. Léon Petit, who has been prominent in the movements for dealing efficaciously with tuberculosis. He had been one of the philanthropic nun's collaborators, but was in no way compromised in her financial quandary. His death has produced a painful impression in Paris. As an instance of the far-reaching nature of the nun's operations, it may be mentioned that in 1906 she obtained official authorisation to organise a lottery for 8,000,000f. (320,000*l.*) in aid of the Ormesson Home for Tuberculous Patients and the Pasteur Institute at Lille. The nun undertook the financial part of the operation, and was to pay the Pasteur Institute 1,200,000f. (48,000*l.*), but has only settled a little more than half that amount on the plea that the lottery was not a success. Dr. Calmette, the director of the Institute, is very reserved regarding the transaction, especially as the scandal surrounding the nun rather tends to increase.

South African News.

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Associations of Chemists in business in British South Africa.

Cape Colony.

Kimberley Notes.—Mr. J. P. Green has returned to Kimberley and resumed charge of Messrs. Lennon's branch.—The Medicine-stamp Act is being vigorously enforced in all parts of the Colony. An inspector is travelling round visiting all the larger towns and paying surprise visits to pharmacies to see that nothing liable under the Act is kept unstamped in the shop. Owing to the very wide interpretation of the term "medicine" in the Act, it embraces nearly all the toilet-preparations usually sold unstamped in England, and as no official list of dutiable articles has yet been issued by the Government, retailers are very often perplexed in deciding what is liable and what is not. Two local chemists were summoned for having Chesebrough's vaseline unstamped, but as these were the first cases under the Act the Magistrate only imposed a small fine. In view of the near approach of Union in South Africa, it is possible that the Act will be suspended, as it is not likely the other Colonies will agree to its extension. The question of one Pharmacy Act for the whole of South Africa will also be gone into, as well as the advisability of having one examining body and fewer centres of examination instead of four distinct boards and centres as at present.—Dr. Sutton, of De Beers Meteorological Station, gave a lecture on Halley's Comet in the local Town Hall in April, when the comet was a conspicuous object in the early morning sky, and was seen to great advantage in the clear atmosphere of Kimberley.—Mr. C. H. Turpin has reopened his Jones Street pharmacy.—Mr. A. K. Bishop, of Kenilworth, Kimberley, has left for a trip to the Old Country with his family. Mr. J. Lindsay, late of Lennon, Ltd., Bloemfontein, is in charge of Mr. Bishop's business during his absence.

Orange River Colony.

The Proposed Conference.—The proposed Medical, Dental, and Pharmaceutical Conference of South Africa was summoned to meet at Bloemfontein on May 16, the various Governments having agreed to this course. The objects of the Conference are the drawing up of a draft Medical and Dental Act and a draft Pharmacy Act for the whole country, both of which are to be submitted to the Union Parliament as soon as possible after it has met. It has been suggested that the veterinary surgeons should also meet at the same time. It is understood that three doctors, one dentist, and two chemists from each Council or Board respectively are being invited, and that the medical and dental delegates will meet jointly and the chemists separately, but that a joint meeting will be held to discuss such matters as concern more than one section of the Conference.

Transvaal.

Industrial Spirit.—The following proclamation by the Governor of the Transvaal has been gazetted in regard to rebate on spirit manufactured within the Union:

Under and by virtue of the powers in me vested by Section 6 of the Customs Amendment Ordinance, 1906, as amended by Section 1 of the Customs Amendment Act, 1908, I do hereby declare, proclaim, and make known as follows:

A rebate less one shilling per imperial proof gallon shall be granted of the duty on plain spirits the produce of the Union used solely in connection with any manufacture under the following regulations:

1. The Director of Customs may deliver from Customs custody, either in bulk or bottle, plain spirits the produce of the Union in quantities of not less than ten gallons to duly licensed manufacturers upon payment of a duty of one shilling per imperial proof gallon and a deposit for the difference between one such shilling and the full duty.

2. If within one month from the making of such deposit the manufacturer shall produce to the Director of Customs or his deputies proper proof that the manufactures contain a like quantity of spirit to that which has been delivered on deposit, and shall furnish a declaration to the effect that all the spirit delivered to him on deposit has been used in such manufacture, then the amount deposited shall be refunded.

3. All mixture or compounding of such spirits shall be open to the supervision and inspection of the Director of Customs or his deputies, and no coloured labour shall be used in such operations.

4. The Director may require the manufacturer to reimburse him for any reasonable expenses incurred in such supervision or inspection.

5. The Director may require the spirits to be made unpotable before use, and the manufacturers shall not include any manufactures of a potable spirit.

Personal.—Mr. Wm. Inglis, chemist, Pilgrim's Rest, has left for England on a well-earned holiday. He expects to be absent for about six months.—Mr. F. T. S. Jennings, of Lydenburg, has had his pharmacy enlarged and improved.—Mr. Astell J. Willson (South African representative for Messrs. C. J. Hewlett & Son, Ltd.) is about again, after a severe attack of bronchitis which necessitated him curtailing his journey through Natal.

Canadian News.

(From the "C. & D." Correspondent.)

Sunday Trading.—Vancouver druggists have received a warning from the Chief of Police in regard to trading in any goods except milk, drugs, or medicine on Sunday.

Result of Publicity.—Mr. H. J. Barber, pharmacist, Chilliwack, put four fox-terrier puppies in his window as an attraction, but the Inland Revenue authorities saw them and collected $10.50 for dog-taxes.

British Columbia Pharmaceutical Association.—The semi-annual examinations were held at Vancouver on May 6 and 7. There were eighteen candidates, of whom four passed the Major and one the Minor. Five Major candidates and three Minor candidates passed in part of the subjects of the examination.

Demerara Doings.

(From the "C. & D." Correspondent.)

Mr. C. P. Gaskin, proprietor of Messrs. Isaacson & Co., New Amsterdam, is endeavouring to convert his business into a limited-liability company. Messrs. Smart Dalgleish & Co., Ltd., who already have one branch in New Amsterdam, are about to open another one close to Messrs. Isaacson & Co.

A Circular-letter is going round for signature by chemists on the west coast. The letter embodies a protest against the sale of drugs by unqualified persons. It is intended, should the majority of chemists identify themselves with the protest, to ask the Governor to receive a deputation to discuss the question.

A Number of the Shareholders of Smart Dalgleish & Co., Ltd., have decided to take proceedings for the recovery of any profits made by the directors by the sale to the company of the businesses of Brodie & Rainer and Alty & Co. For this purpose the shareholders are to be invited by circular to subscribe 150*l.* to defray legal expenses.

The Board of Examiners under the Pharmacy and Poisons Ordinance have arranged for the admission of candidates for the examination to certain of the courses of lectures on agricultural science and hygiene, given by the science lecturer of the Department of Science and Agriculture. The course will be supplemented by special courses, each of about six lectures. To enable this instruction to be given it is necessary for at least six candidates to send in their names and to pay a fee of $10 each.

Dispensaries.—At a meeting of the Committee of the Combined Court, to consider the question of the extension of the "dispensary system" in country districts, the surgeon-general said that he should like it laid down that the proposed medical station should be provided for the medical officers in public buildings or at the cost of the Colony. Part of the scheme was that the medicine should be supplied either by the medical officer or by a dispenser at a uniform rate of 24 cents. It was formerly decided to recommend an expenditure of $1,500 *plus* the amount at present paid in connection with the Albouystown Dispensary.

India and the East.

(From the "C. & D." Correspondents.)

A Dispensary Boat for the Pahang River is being built at Pekan. It is an ordinary houseboat, and when completed it will cruise up and down the Pahang River in charge of a Malay dresser. This floating dispensary will also facilitate the free distribution of quinine to the natives.

Duty on Quinine Tablets.—The question of the levy of Customs duty on quinine was recently brought to the notice of the Committee of the Bengal Chamber of Commerce by the Indian Tea Association. In December last the Government of India declared quinine and other cinchona alkaloids to be free of duty. Subsequently it transpired that this exemption does not extend to quinine preparations in the form of sugar-coated tablets, capsules, or pills. Against such a restriction the Tea Association protested, it being pointed out that on tea estates quinine is invariably given in the form of tablets. The Association urged that quinine of all descriptions be admitted free of duty and asked that this recommendation should be supported by the Chamber. The committee complied with the request, and addressed the Government of India accordingly, and it is probable that the request will be granted.

Colonial and Foreign News.

An Interesting Conference of the pharmaceutical examiners at the Swiss Universities recently took place in Berne, with the object of discussing the changes to be introduced in the Swiss pharmaceutical curriculum. At present this comprises two years' apprenticeship, followed by the assistants examination, one year to be spent as an assistant, and then study at a University, whereupon the State examination for the diploma has to be passed. This curriculum implies that the fundamental scientific, as well as practical, knowledge is acquired by the future pharmacist during his apprenticeship. The examiners were unanimous as to the inadvisability of combining both, and are of the opinion that the scientific training should be confined to the time spent at the University, while the practical training should be acquired in a pharmacy. Two proposals were adopted for further discussion, and will be laid before the Swiss Pharmaceutical Society for decision. The first provides for an uninterrupted study of five semesters at a University immediately on leaving school, and the apprenticeship is to be abolished. The scientific examination will be held at the close of the University study, but the diploma will not be granted until the candidate has spent another five semesters at practical work in a pharmacy or pharmacies. The other proposal, advocated by Professor Tschirch, places the apprenticeship between two courses of study at a University. The future pharmacist on leaving school will go straight to a University for two or three semesters and attend lectures on botany, chemistry, and physics. At the end of this course of study a scientific examination will take place, to be followed by an apprenticeship in a pharmacy lasting one year. After this the real pharmaceutical curriculum at a University will begin, lasting four semesters, so that the total time spent at a University shall not be under seven semesters. The State examination will then have to be passed, but the diploma will not be conferred for another eighteen months or two years, which will have to be spent in a pharmacy as an assistant. According to the existing regulations, the Swiss pharmacist has to attend the following courses at a University: Inorganic and organic chemistry, analytical chemistry and toxicology, pharmaceutical chemistry, analysis of foodstuffs, physics, zoology, mineralogy, general and systematic botany, pharmaceutical botany, pharmacognostics, microscopy, and hygiene. During his University curriculum the student is not permitted to take a position as assistant in a pharmacy.

Alkaline Milk.—The French Minister of Agriculture has informed the Directors of the Government Laboratories that the addition of sodium bicarbonate to milk must be regarded as an adulterant.

Our American Letter.

From an Ethical Pharmacist.

The N.A.R.D is constantly striving to make itself more useful to the members. Its latest venture is to establish a collection department for the benefit of druggists who have a number of customers on their books whose accounts they have been unable to collect. Apparently the department is proving very successful.

A Unique Scheme has recently been devised by nine chemists in Washington. Finding that the competition of the company pharmacies and the large retailers is handicapping them considerably, they have entered into a plan of co-operative advertising. They use half-pages of space in the Washington newspapers and refer to themselves as "The Nine Best Drug-stores." They offer bargains in popular products, and hope in this manner to hold their own against competition.

Two Very Important Decisions have recently been rendered in the courts of New York State. One upholds the constitutionality of the State Pharmacy Act as a whole. The other upholds the constitutionality of the graduation prerequisite clause of the Act. This simply means that laws are valid which are passed by the State for the purpose of ensuring that pharmacists are properly qualified before they are allowed to practise their profession. The Courts have held this to be a constitutional exercise of the police power.

The Department of Agriculture at Washington has for years laid down a rule arbitrarily that ice cream must contain not less than 14 per cent. of butter fat and be made of nothing but cream, sugar, and a harmless flavour. Most of the States have adopted the same standard. A police judge in Washington now declares, however, that this standard is arbitrary, that it has no justification in the Federal law itself, and that ice cream made after this method is unsatisfactory anyway. This is one of two or three recent decisions in which the Federal Government has been defeated in its enforcement of the Food and Drugs Act.

The Federal Congress declared in effect two or three years ago that cocaine could not be sent through the mails, even to druggists, physicians, or veterinarians. Manufacturers have protested all along against this condition of things, the claim being that legitimate trade was unduly hampered. Congress has now passed a revised Bill permitting the mailing of cocaine to the medical and pharmaceutical professions, providing the shipper's name appears on the package and certain other requirements are complied with. Of course, the purpose of the original measure was to curtail the illegitimate sale of cocaine, and it failed to do this on the one hand, while, on the other, it severely limited the operations of the drug-trade.

The Sensational Suit brought by a minority of stockholders against the Sanitol Chemical Laboratory Co., of St. Louis, has been referred to in this column from time to time. The company manufactures a large line of toilet-articles, and it numbers many pharmacists and dentists among its stockholders. A year or so ago it was charged that Herman Luyties, the manager, had feathered his own nest very successfully, and the suit which has been going through the courts has now finally been settled. The Judge declared that Luyties "scuttled the assets of the corporation," and that he sold the company five formulas which were absolutely worthless and paid himself $200,000 for them! The Court orders that Luyties pay back into the treasury a sum approximating to three-quarters of a million dollars. Where the erstwhile president will secure this money yet remains to be seen. In the meantime the company is being conducted by two receivers appointed by the Court.

Exaggerated Rumours are still afloat regarding the formation of a big national drug-store trust. The newspapers, always looking for sensations, and never over-punctilious about the truth, develop a new hoax every few days. In the meantime the existing company pharmacies do not seem to be growing with any great rapidity, and all talk of their amalgamating to form one corporation seems to be the veriest nonsense. Mr. Goddard, the leader of the American Druggists' Syndicate, did not succeed in his effort to get the A.D.S. stockholders to permit him to form a separate corporation for the purpose of creating an independent series of chain-stores throughout the country. Instead of that the alternative decision was made of springing to the defence of an A.D.S. member when his livelihood is threatened by the company pharmacies. The scheme will be tried experimentally in New York City, where a single drug-store will be taken over and conducted for a few months in an effort to see if it can be made profitable. The A.D.S. capitalisation has been increased from $250,000 to $25,000,000, although only $2,000,000 of stock will be issued at the present time. The A.D.S. has sent out invitations to every pharmacist, dentist, physician, and nurse in the country inviting them to buy stock in the corporation.

Legal Reports.

Trade Law.

Cinematograph Exhibitions.—The London County Council, under the Cinematograph Act, prevents cinematograph exhibitions in licensed premises on Sundays, Good Fridays, and Christmas Day. Mr. Cecil Chapman, the Tower Bridge magistrate, has dismissed an action by the Council against a licensed company for contravention of the licence by opening on Sunday. The ground stated for the dismissal of the summons was that the Act does not deal with any cinematograph exhibition for the purposes of which non-inflammable films are used. Mr. Chapman said: "The London County Council has assumed that, having been constituted the licensing authority under the statute, they have been invested with general powers of regulation, as if they were licensing a music-hall. I think they are mistaken, because their licensing is controlled and restricted by the purposes of the Act described in its title and defined by section 1."

High Court Cases.

[Unless where otherwise stated the actions are in the High Courts of Justice, London.]

"Zam-Buk" Passing-off Case.

In the Chancery Division on May 24, Mr. Justice Joyce had before him the case of C. E. Fulford, Ltd., *v.* Lloyd, which came on as a motion for judgment in default of defence.

Mr. Sebastian, for the plaintiffs, stated that they were the proprietors of "Zam-Buk," and the action was brought for an injunction restraining the defendant from passing-off another ointment, not of their manufacture, as and for "Zam-Buk," and from infringing their registered trade-mark.

Mr. Justice Joyce gave judgment for the plaintiff company, and ordered delivery up of the articles complained of and an inquiry as to damages.

Claim against a Dental Institute.

An action has been raised in the Court of Session, Edinburgh, by Mrs. Mary Mackinnon, or Black, wife of and residing with John Black, stevedore, Leith, against the Edinburgh Hygienic Institute, Ltd., Glasgow and Edinburgh, whom she sues for 250*l.* as damages. The pursuer states that relying on the representations of an agent of the defenders' company, who called upon her, she agreed to order a lower set of artificial teeth at 3*l.* 15*s.*, less 5 per cent. discount. The defenders' operator, named McKendrick, called to extract her teeth on January 11 last, and suggested that she should have some decayed teeth in the upper jaw extracted. She objected, and called the operator's attention to the fact that her order was for a lower set only, and said she did not want any extraction to be made that day. Ultimately, however, she reluctantly consented to one extraction, as the operator said, to show that it would be painless. He injected an anæsthetic, and, in doing so, pursuer says, he negligently caused her to swallow a quantity of it, and instead of one tooth he extracted three, one of which was quite sound. The operation was roughly and unskilfully executed, and caused her much unnecessary pain and sickness, and she had suffered and still suffers severe physical and mental pain. She states that she has since heard that the operator never underwent any proper course of training in dentistry, and that he was an insurance inspector prior to being engaged by the Institute as a canvasser, and later as an operator. The defenders deny the pursuer's statements, and aver that McKendrick extracted two decayed teeth from her upper jaw according to verbal agreement. The illness from which she suffered for about a week was in no way due to the actings of the operator. Against the advice of the operator the pursuer after the operation took a quantity of rum.—Lord Dewar, before whom the case was called, ordered issues for the trial of the case by jury.

Pharmacy Act, 1868.

Use of the Title "Chemist."

The Registrar of the Greenwich County Court has adjourned the hearing of an action under Section 15 by the Pharmaceutical Society against J. J. Banyard, otherwise John Beresford, trading as Hern & Co., for exhibiting the title "chemist" at 21 Catford Hill, S.E., in association with the name of Hern & Co., he not being registered under the Act. The only evidence was by George Waldock, who deposed to purchasing something on January 16 from a man in the shop whom he knew as Mr. Barnes and recognised as John Beresford, but, in reply to the Registrar, added that the man was J. J. Banyard, and it was upon him he served the summons. Defendant did not appear, although it was stated that he had been subpœnaed under the name of Banyard or Beresford. The Registrar said that he had no evidence that the man who sold the article or received the summons was Banyard, and the hearing was accordingly adjourned.

Sale of Oxalic Acid.

At Bow County Court, before Judge Smyly, K.C., on May 25, Edward Moreland, 2 Chapel Street, Stratford, E., was summoned by the Pharmaceutical Society for a penalty of 5*l.* for selling oxalic acid, he not being a registered chemist. Mr. W. H. Quarrell appeared for the Society, and said that the defendant had sold a pennyworth of the acid.—The defendant, in reply to his Honour, admitted selling the acid, adding, "It is my first and last pennyworth."—Mr. Quarrell then stated that it is a poison mentioned in the schedule, and his Honour said, "Then I am afraid that the sale is contrary to the provisions of the Pharmacy Act. How can you pay the money?"—Defendant: "Well, I am out of work at present."—Mr. Quarrell suggested that defendant should be ordered to pay 1*l.* a month.—His Honour said he would make an order to that effect, and judgment was entered for the Society, with costs.

Sale of Food and Drugs Acts.

Cream of Tartar.

At Sligo, Patrick J. McLaughlin, Tully, was fined 5*s.*, and costs, for selling as cream of tartar a compound of acid phosphate and sulphate of calcium.

Sweet Spirit of Nitre.

At Leven, Yorkshire, on May 18, John Maulson, grocer, Seaton, was fined 6*d.*, and 18*s.* costs, for selling sweet spirit of nitre which was 34 per cent. deficient in ethyl nitrite. The defendant said the spirit was supplied to him by a Hull vendor, who had often visited his shop for orders. He got a fresh supply of sweet nitre about once a fortnight. The person from whom he had bought the spirit gave a verbal guarantee of its being up to standard strength.

Pungent Chocolates.

At the Marlborough Police Court, London, on May 24, Mr. Denman fined Frederick Allcroft, confectioner, 59 Great Titchfield Street, W., 20*s.*, and three guineas costs, for selling chocolates which were mixed with an ingredient or material rendering them injurious to health, and not of the nature, substance, and quality demanded, inasmuch as they contained "the acrid principles of Cayenne pepper." The defence was that the chocolates (which are called "the catch of the season") are well known as being sold for the purpose of practical joking, and the Sale of Food and Drugs Act was not passed to prevent practical jokes.

Gazette.

Partnerships Dissolved.

Baines, E. C. A., and Brownlow, H. L., physicians, etc., Henley-on-Thames.

Krumbholz, C. J. I., and Pope, C. A. W., Rugby, general medical practitioners, under the style of Krumbholz & Pope.

The Bankruptcy Acts, 1883 and 1890.

Receiving Order.

Peet, James Henry, Worplesdon, Surrey, physician and surgeon.

Adjudication.

Peet, James Henry, Worplesdon, Surrey, physician and surgeon.

Owners of Rubber Shares may be glad to learn that the proper manure for rubber-trees should consist of 250 kilos. of superphosphate, 150 kilos. of sulphate of ammonia, and 200 kilos. of chloride of potassium for every hectare (2.47 acres).—"Chemische Industrie," No. 9, 1910

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

Go-Go-Ene, Ltd. (P.C.).—Capital 100*l.*, in 1*s.* shares. Objects: To carry on the business of miners, metallurgists, oil-producers, drug and medical preparation manufacturers, mineral-water dealers, etc. R.O., 109 Victoria Street, S.W.

Kazana Sour-milk Cure Co., Ltd.—Capital 2,000*l.* Objects: To carry on the business of manufacturers of and dealers in Kazana lactic-milk cheese, butter, and pastilles, patent medicines, sweetmeats, etc. R.O., 9 Hardy Street, St. George's Square, Liverpool.

Norisco Toothbrush Co., Ltd. (P.C.).—Capital 500*l.* Objects: To carry on the business of manufacturers of brushes, tooth powders, pastes, and washes, etc., and to adopt an agreement with C. A. Schierwater, Great Meols, Cheshire, merchant, who is permanent governing director.

Glasgow School of Electropathy and Massage, Ltd. (P.C.).—Registered in Edinburgh. Capital 1,500*l.* Objects: To purchase the Glasgow School of Electropathy and Massage, 331 St. George's Road, Glasgow. The first subscribers and directors are H. S. Park, C. F. S. Stewart, and R. A. P. Love. R.O. as above.

A. Kennedy & Son, Ltd.—Capital 500*l.* Objects: To carry on the business of general merchants and druggists' sundriesmen and packers carried on by Kennedy & Co., at 159 Kingsland Road, N.E. The first directors are W. T. Webb, T. Boorman, and A. Kennedy. R.O., 159 Kingsland Road, N.E.

Curacho, Ltd. (P.C.)—Capital 5,000*l.* Objects: To carry on the business of manufacturers of and dealers in "Curacho" embrocation for rheumatism, gout, and kindred ailments, etc., and to adopt an agreement with C. F. Waters, East Street, Sudbury, Suffolk. The first directors are C. F. Waters, C. O. West, and E. R. Clarke.

Jenkins, Goundry & Co., Shipping Chemists, Ltd. (P.C.).—Capital 300*l.* Objects: To take over the business of a drug-stores proprietor carried on by W. Jenkins, at 30 Louisa Street, Bute Docks, Cardiff. The first subscribers are W. Jenkins, 10 Pitman Street, Canton, Cardiff, chemist's assistant, and E. R. Goundry, 23 Marlborough Road, Cardiff, pharmacist. The latter is managing director.

Dick & Parker, Ltd. (P.C.).—Registered in Edinburgh. Capital 10,000*l.* Objects: To acquire the business of soap, candle, and tallow manufacturers, oil, paint, varnish, tar and pitch merchants and manufacturers, dealers in all ship's and general stores and chemicals, etc., carried on by Dick & Parker at 76 West Milton Street, Port Dundas, Glasgow. The first directors are W. Fawcett, J. Martin, and G. M. Martin.

Universal Dental Manufacturing Co., Ltd. (P.C.).—Registered in Edinburgh. Capital 1,000*l.* Objects: To acquire from Thomas H. Collingbourne certain British and foreign patents relating to the manufacture of artificial teeth, together with the business carried on at 34 St. Andrew Square, Edinburgh, by the Universal Dental Manufacturing Co. The first directors are T. H. Collingbourne, J. Grave, J. B. Grant, and A. Pearce. R.O., 34 St. Andrew Square, Edinburgh.

Boots Cash Chemists (Northern), Ltd.—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, drug-merchants, and general storekeepers in Great Britain or Ireland, and to adopt an agreement with Sir Jesse Boot. The first subscribers are: Sir Jesse Boot, The Park, Nottingham, managing director; A. Thompson, 5 Patrick Street, West Bridgford, general manager; J. H. Potter, 10 Musters Road, West Bridgford, chemist; A. W. Raley, 16 Chantry Road, West Bridgford, cashier; T. S. Ratcliffe, 30 Milner Road, Sherwood, Nottingham, accountant; G. F. Goodson, 329 Alfred Street, Nottingham, clerk; and A. L. Milne, Gedling Grove, Nottingham, secretary. Minimum cash subscription, 10 per cent. of the shares offered to the public. The first directors are Sir Jesse Boot (first managing director) and J. H. Potter, M.P.S. R.O., Station Street, Nottingham.

Company News.

Cera Co., Ltd.—To be voluntarily wound up. Mr. C. T. Symons has been appointed liquidator.

American Dental Institute, Ltd.—The liquidator's report will be submitted at a meeting at 23 College Hill, London, E.C., on June 21, at noon.

Cassell Cyanide Co., Ltd.—The directors have declared a dividend of 1*s.* per share, free of income-tax, on the ordinary shares for the past half-year.

Whiteaway, Laidlaw & Co., Ltd., Export Merchants.—The profit for the year ending February 28 was 82,606*l.*, out of which the directors recommend a dividend of 8 per cent. per annum, free of tax.

Swansea Oxalic Acid Works, Ltd.—The Official Receiver has issued his report to the creditors and shareholders, showing liabilities 5,651*l.*, assets 1,960*l.*, and a deficiency of 13,691*l.* as regards shareholders.

Claudius Ash, Sons & Co.—The profit for the past year was 91,261*l.*, or, after the deduction of income-tax, directors' fees, etc., 81,804*l.*, making, with the amount brought forward, 92,637*l.* An interim dividend of 6 per cent. per annum was paid for the half-year to June 30, and the directors now recommend a dividend on the ordinary shares for the half-year to December 31 at the rate of 10 per cent. per annum, less tax, making 8 per cent. for the year, and the balance carried forward is 15,182*l.*

Foreign Chemical Companies.—The (Hungarian) Clotilde Chemical Works are again paying 8 per cent. for 1909.—Kallé & Co., Biebrich, show a net profit of m.852,382, against m.222,730, and are paying 10 per cent., against 4 per cent. in 1908.—The Schuster and Wilhebrug Chemical Co., of Forlitz, are again paying 4 per cent.—The Billwarder Chemical Works, formerly Hell & Sthamer, Hamburg, report a net profit of m.380,859, against m.319,927 in 1908, and are again paying 10 per cent.—The Griesheim Electron Chemical Works, Frankfort, are erecting a large new plant at Bitterfeld for the manufacture of organic compounds used in their business.

Brunner, Mond & Co., Ltd.—The annual meeting was held in Liverpool on May 23. Sir John Brunner, who presided, alluded at the outset to the loss sustained by the company and science generally by the death of Dr. Mond, with whom he had been on terms of brotherly affection for forty-seven years. Proceeding, Sir John said the directors had pleasure in putting before them a statement showing increased profits, earned in spite of the fact that they had in some directions considerably reduced selling prices. There was but a small addition to the capital account, which reflected the sound policy adopted by the board. Their investments were practically the same in amount. In the previous year they put 100,000*l.* to surplus account, and now the directors asked the shareholders to approve of their putting 150,000*l.* to that fund. Here they saw evidence of the directors' determination to keep and maintain all their works, wherever they might be, absolutely up to date, and to scrap all that was obsolete. The report (see *C. & D.*, May 14, p. 732) was adopted. A resolution was also passed approving of an agreement with Sir John Brunner for his services as chairman of the company at a salary of 5,000*l.* as from April 1 last, and upon such other terms as the directors should think fit.

The "Sanitas" Company, Ltd.—The annual meeting was held at the Works, Locksley Street, Limehouse, London, E., on May 25, Mr. C. T. Kingzett, F.I.C., F.C.S., in the chair. The Chairman, in moving the adoption of the report (see *C. & D.*, May 21, p. 763), said that the past year had been a record one, both in respect of business and profit. He referred to the "Lancet" commission on disinfectants, in which coal-tar disinfectants were tested from a chemical point of view. Sanitas-Bactox headed the list, and Sanitas-Okol took first place among disinfectants of the ready-made emulsion order. He also outlined a profit-sharing system in which all the employés of the company are to participate according to their wages and length of service. Mr. Kingzett read a letter from the Principal of St. James's Senior Boys' School, Athboy, showing the good effect of disinfecting the school with "Sanitas." Mr. R. M. Cunningham seconded the adoption of the report. Mr. Ashton and Mrs. Sampson asked questions regarding the valuation of the stock and the manner in which the financial statement is placed before the shareholders. Mr. Kingzett, in reply, said that the stock is valued in the balance-sheet below cost, and that the Stock Exchange quotation is no indication of the value of commercial undertakings. The report was adopted, and an agreement was approved of disposing of the Company's property and assets in the United States to a separate company. Mr. Cunningham was re-elected a director, and the auditors were also re-elected.

Mortgages and Charges.

Original Antiseptic Pastille, Ltd.—Third debenture dated April 28, 1910, to secure not more than 500*l.*, charged on the company's undertaking and property, present and future. Holder, T. Kerfoot, Holly Mount, Seymour Grove, Old Trafford, Manchester. Particulars of 2,000 second debentures, created by resolution of even date, also filed. Also issue on same date of 200*l.* first debentures.

The Following Companies have been struck off the Register at Somerset House: British Seamless Rubber Co., Ltd.; Glamorgan Soap Works, Ltd.; Granulated Preserved Food Co., Ltd.; Hammond's Foods, Ltd.; Perfect Food Co., Ltd.; Science Development Co., Ltd.; West African Mineral-water Manufacturers' Association; Wimbledon Colour and Varnish Co., Ltd.

Trade Notes.

The Mourning Paper which is supplied in penny packets by Mr. Walter East, Leicester, is good value and an opportune side-line.

Daisyfoam.—Daisy, Ltd., Mammoth Works, Leeds, are prepared to distribute a thousand 1*s.* boxes of "Daisyfoam" shampoo among *C. & D.* subscribers. The particulars are set forth in the company's advertisement in this issue.

Armour's Junket Powder, to which we referred a fortnight ago, is put up in tubes with a boxwood capped cork, the cap being a cup measure for the quantity of powder to take for a prescribed amount of milk. The package is as neat as the powder is effective, and a dozen boxful is an attractive counter line.

Castilloa Rubber Latex is very difficult to coagulate, but the Elias Pure Rubber Process, Ltd., 9 St. Mary-at-Hill, London, E.C., have solved the problem by preparing a coagulant in powder form. This is dissolved in boiling water, the latex added, then coagulation begins, and is completed by boiling the whole.

Massolettes Prices.—The Lactic Ferments, Ltd., Brunswick Row, Brighton, intimate in their advertisement that from June 1 Massolettes will only be sent out stamped and that the wholesale prices will be advanced according to the value of the stamps. Massolettes may be sold unstamped for a few weeks, this being a concession which allows the sale of stocks held by pharmacists.

P.A.T.A. Prices.—The following additions have been made to the Protected List during May: Davy's Diamond cement; Frozen Foam; Huxley's proteid food; Lactolettes; Jackson's Bronkerchief; John Bell & Co.'s Cerogen; Regulin; Zardol and Lotil preparations. The removals are: Colrow bath-salts; Healine ointment; Digesto; Lorimer's goods; Marienbad anti-obesity tablets (but not Wander's other lines).

"Wigmore" Nasal Douche.—Messrs. Allen & Hanburys, Ltd., 48 Wigmore Street, London, W., have made for Dr. Percy Allan, Croydon, a simple rubber contrivance for irrigating the nasal passages, which has been registered under the title of "Wigmore" Nasal Douche. Dr. Allan informs us that he has used the douche for some months in his practice and finds it answers admirably. The douche has the following advantages: (1) Children use it easily and without making a mess. Its simple appearance does not cause them alarm. (2) The lotion passes at inspiration

through the nasal passages without discomfort or shock. (3) A good quantity of lotion can be employed, as is often necessary, without danger to the eustachian tubes. (4) There is nothing to break, and the douche can be easily cleaned or sterilised. It is useful in treating common nasal catarrh, the lotion employed being a weak solution of common salt and carbonate of soda, those who suffer from attacks of "cold in the head" will find a daily irrigation with some such simple lotion an excellent preventative measure. The form of the douche is shown in the accompanying illustration.

Messrs. Wilcox, Jozeau & Co., 49 Haymarket, London, S.W., have published a revised price-list of French and German proprietaries, specialities, waters, wines, etc.—a most useful and informative list, printed in French and English. It contains articles rarely found in English proprietary lists, and the firm quote only those articles which they usually stock. They will send a copy to any of our subscribers who require it.

"Dr. Durden's Pocket-book" is the title of a threepenny booklet published by Messrs. James Townsend & Sons, 2 and 3 Stonecutter Street, London, E.C. It is a popular epitome of the homœopathic treatment of ordinary ailments and a domestic medical guide. As a means of arousing interest in homœopathy the booklet is excellent, the advice given is sage and, as far as we can see, does not encourage undue temporising on the part of the patient.

"Musk Omega" is the name given to 100 per cent. xylol synthetic musk manufactured by the Chemical-works "Flora," Ltd., Dubendorf, Zurich, Switzerland, and for which the sole United Kingdom and Colonies agents are Messrs. Chas. Zimmermann & Co., 9 & 10 St. Mary-at-Hill, London, E.C. The perfume is offered at 12*s.* per lb., including 1-lb. tins, and samples can be obtained from the agents. It is in fine crystals, and is of full odour.

Personalities.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

Mr. A. E. Ekins, Ph.C., F.I.C., of St. Albans, has inaugurated a series of lectures to the Men's Adult School there on "The Treatment of the Sick."

Mr. Fred. Bascombe, Ph.C., F.I.C., has been elected, unopposed, as a member of the Lambeth Borough Council for the Tulse Hill Ward, in which he resides.

Mr. George W. Harris, of Messrs. Walker & Harris, chemists, Canterbury, has been gazetted quartermaster with the hon. rank of lieutenant of the 2nd Home Counties Field Ambulance, Royal Army Medical Corps.

Mr. James Darcy Lever, Thornton House, Thornton Hough, Cheshire, of Messrs. Lever Bros., soap manufacturers, Warrington and Port Sunlight, who died on March 29, left estate valued at 459,678*l.* 18*s.* 6*d.* gross, with net personalty 445,183*l.* 9*s.* 9*d.*

Mr. P. J. Bartlett, chemist and druggist, 70 and 71 Buckingham Gate, London, S.W., was commissioned by a high official to take a photograph of the lying-in-state of King Edward VII. in Westminster Hall. Mr. Bartlett has sent us a copy of the resulting picture, which is unique, not only in being the only one taken by a pharmacist, but in its technical excellence.

Mr. T. M McNeil, chemist and druggist, St. John's, Newfoundland, who has been appointed the first President of the Pharmaceutical Society of Newfoundland, is the eldest son of the late Mr. John McNeil, who succeeded to the business of Messrs. T. McMurdo & Co. on the death of his father-in-law, who founded it in 1823. Mr. John McNeil on more than one occasion endeavoured to obtain some legal recognition of pharmacy in this the oldest dependency of the British Empire, and his untimely death prevented the realisation of his ideal. His son Mr. T. M. McNeil was educated in the North of Ireland, and, after serving an apprenticeship with his father in St. John's, came to London to study for the Minor and Major examinations at the Metropolitan College of Pharmacy, but owing to his father's illness he had to return to Newfoundland before he had entered for the first of these.

Mr. T. M. McNeil.

He took over the business on his father's death, and since then has paid several visits to the Old Country and has developed his business in novel directions. Mr. McNeil is alive to the future industrial developments of the Colony consequent on the opening of the railway, of paper-works, and other industrial ventures. About four years ago he began to sound the members of the Legislature in regard to a Pharmacy Act, and, in association with his *confrères* at St. John's, has at last succeeded in obtaining an Act which requires that from now onwards all those engaged in pharmacy in Newfoundland shall be registered.

Business Changes.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

Mr. J. R. Hickes has commenced business at 103 Cleveland Street, Doncaster.

Mr. A. H. Buckett has disposed of his business at 22 Market Place, Penzance, to Mr. H. H. Cannon, late of Plymouth.

Mr. R. Lloyd has taken over the Ryland's drug-stores at 372 Harrow Road, London, W., formerly carried on by the late Mr. H. W. Cave, chemist and druggist.

Messrs. Raine Bros., chemists, Blackburn and Darwen, state that, owing to the expiration of the lease, they have to leave their present premises at 49 King William Street, Blackburn.

Births.

Foster.—At 13 Cowley Road, Leytonstone, on May 14, the wife of F. H. W. Foster, pharmacist, of a daughter.

Williams.—At 118 Union Road, Sheffield, on May 20, the wife of Mr. Harry G. Williams, chemist and druggist, of a son.

Marriages.

Blenkinsop—Burgess.—At Edinburgh, on May 21, by the Rev. Hugh Cameron, Richard Blenkinsop, F.C.S., eldest son of Mr. W. E. B. Blenkinsop, F.C.S. (Messrs. May & Baker, Ltd., Battersea, London, S.W.), to Jessie Campbell, fourth daughter of the Rev. William Burgess, of Rome.

Woodman—Wooler.—At Holly Mount Chapel, Malvern, by the Rev. Walter Lee, on May 21, Will. A. G. Woodman, chemist, Malvern, to Maud Mary, eldest surviving daughter of Mr. J. H. Snaith Wooler, late of Darlington.

Deaths.

Breach.—At the East Sussex Hospital, Hastings, on May 15, Mr. Geo. Breach, aged sixty-nine. Mr. Breach was in the employ of the late Mr. Keyworth, chemist and druggist, Wellington Place, Hastings, for many years.

Fisher.—Suddenly, at Woodside, Larkfield, Gourock, on May 20, Janet Paul, wife of Mr. Thomas Fisher, chemist and druggist, formerly of Greenock.

Fordham.—At Hastings, on May 20, Mr. John Fordham, late director of W. B. Fordham & Sons, Ltd., York Road, King's Cross, London, aged sixty-three.

Moran.—On May 14, Louisa, the wife of Mr. Wm. John Grace Moran, chemist and druggist, 7 High Street West, Glossop, aged forty.

Peyton.—At Westfield, Augustus Road, Edgbaston, Birmingham, on May 23, Mr. Richard Peyton, aged eighty-four. Mr. Peyton was the son of the late Mr. Abel Peyton, and, after receiving his scientific education at Heidelberg, he joined his father in business as a chemical-manufacturer in Birmingham. He was an ardent musician, and for half a century was associated with the musical life of Birmingham, and endowed the Richard Peyton chair of music in the University of Birmingham.

Poison Licences.

(Poisons and Pharmacy Act, Sec. 2.)

Consideration of Applications.

Broadstairs.—The application of Mr. J. K. Dodd, ironmonger, Broadstairs, came before the local Urban District Council on May 23, when the Clerk stated that he informed the applicant in June last that the Urban Council was not the proper authority to whom he had to apply. It was decided to inform the applicant of this fact.

Application Granted.

Margate.—The Town Council considered on May 24 the objection of the Isle of Thanet Chemists' Association to the application of a local ironmonger. The objectors averred that the public requirements were more than fully provided by the sixteen chemists in the town. Alderman Pilcher considered it a hardship to deprive anyone who had been selling insecticides for twenty years of the right of continuing to do so because he had to apply for a licence under a new Act. Alderman D. T. Evans, chemist, said that some of the insecticides were the most potent poisons known, and every person who might choose to buy a 6*d*. or 1*s*. packet of poison could do so without let or hindrance if the licence was granted. Dr. Richards also spoke of the grave dangers which might result if the application was granted. The Council decided to grant the licence by sixteen votes to five.

Renewals.

Oxford.—The City Council has renewed the poison-licence issued to Mr. Archibald Smith, seedsman, 14 Market Street.

Poisoning Cases.

Fifteen fatalities, including five misadventures and one murder, have been reported since last week's issue.

Ammonia, taken in mistake for cod-liver oil, was responsible for the death of Charles Thomas, engineer, Sheffield.

Laudanum-poisoning was certified to be the cause of the death of Maria Lawley (18), domestic servant, at St. Helens. No traces of the drug could be found, and inquiries among chemists in the town failed to reveal the source of supply. An open verdict was returned.—Edith Mahala Cussons (19) poisoned herself at Hull by taking laudanum. She purchased three-pennyworth of the opiate from a Cumberland Street chemist, and subsequently obtained a similar supply.—An accidental overdose of the same narcotic ended the life of Thomas Burnham (55), labourer, Bishop Auckland.

Oxalic Acid was used for self-destruction by Adeline Bellino (40), linen-maid, St. Giles, London, W.C.—This acid, taken in mistake for Epsom salts, caused the death of George Pratt (45) at Leicester.

Potassium Cyanide caused the accidental death of Captain Herbert Fairburn, Adjutant to the Northumbrian (North Riding) Royal Garrison Artillery, who drank a solution of potassium cyanide, with which he was cleaning his uniform, instead of some whisky-and-water.—The same poison was used for suicidal purposes by James Spencer, printer's apprentice, Middlesbrough.

Salt of Lemon was taken to end her life by Amy Bennett (34), of Woking. Mr. H. E. Parsons, chemist and druggist, manager of the Woking branch of the Timothy White Co., Ltd., stated at the inquest that the paper produced contained salt of lemon supplied by his firm. They sold a considerable quantity of the poison, which was used for cleaning hats, etc. Replying to a juror, witness said it would have a distinctive label from Epsom salts, bearing the word "Poisonous."

Sheep-dip.—At Fourmilehouse, co. Roscommon, Miss Carlos, daughter of a school-teacher, died from misadventure through drinking sheep-dip in mistake for medicine. The two bottles were somewhat similar in appearance, and deceased took up the wrong one.

Spirit of Salt was taken with suicidal intent by Alice Pearce (42), of Doynton Street, London, N.—The wife of a Cambridge police-sergeant named White committed suicide with this corrosive poison.

Strychnine.—At Hounslow, James Charles Wingrove, brewer's traveller, died from the effects of strychnine-poisoning. The poison was bought from a Teddington chemist about two years ago for destroying mice. "Suicide while of unsound mind" was the verdict of the Coroner's jury.

Kind Not Stated.—At Bristol, Clara Rose poisoned her ten-year-old child, and then committed suicide by taking poison.

Ink for Writing on Zinc.—Copper sulphate 1 part, calcium chloride 1 part, distilled water 35 parts.—*El Restaurador Farmacéutico.*

General Medical Council.

THE ninety-first session of the Council opened at 299 Oxford Street, London, W., on Tuesday, May 24, at 2 P.M., Sir Donald MacAlister, K.C.B., M.D., in the chair. Among the new members were the representative of the new Queen's University of Belfast, Sir William Whitla, M.A., M.D., LL.D., who was introduced by Sir John Moore; Mr. Arthur Trehern Notton, C.B., F.R.C.S., who represents the Apothecaries' Society of London in place of Sir Hugh Beevor, and was introduced by Sir Henry Morris; and Dr. Arthur Newsholme, F.R.C.P., Crown nominee, who succeeds Sir W. H. Power, and was introduced by Dr. Norman Moore. After these introductions,

The President's Address

was delivered. Sir Donald MacAlister opened with a reference to the national loss, his remarks on this subject being received by the Council rising to their feet. "The members of the profession," he said, "can appreciate, better perhaps than others, the kingly courage of our late beloved Sovereign, who under the approaches of his malady refused to yield to any but the last inexorable summons." After alluding to forthcoming additions to the numbers of the Council consequent on the appointment of the Universities of Bristol and Wales, and a fourth direct representative, and the attendant financial difficulties which could only be met by some process of delegation, the President spoke of the revision of the Medical Register, now complete after the labour of two years. It is now more accurate than it has ever been before; in one year over 14,000 corrections had been made. He hoped that the coming conference of medical authorities in Canada would lead to the establishment of a Canadian Register in place of the provincial one now in use; the question of reciprocity between this country and the Dominion would thus be greatly simplified. Reference was next made to the Bill of the Apothecaries' Society of London, which the Speaker of the House of Commons ruled could not proceed as a private Bill; then to the petition of the Apothecaries' Hall of Ireland to the Privy Council, praying that the Medical Council might be directed to recognise its Preliminary examination as sufficient for the registration of medical students. The Privy Council decided that the subject-matter of the petition did not fall within the purview of their Lordships, and informed the governing body of the Hall that they were unable to comply with the prayer of the petition. Sir Donald MacAlister next spoke of the report of the Departmental Committee on Coroners, then commented on the recent decisions under the Dentists Act, and on medical legislation generally, in respect to which he said:

"By a recent judgment the House of Lords has finally decided that Section 3 of the Dentists Act imposes on an unqualified person no restriction other than the prohibition to use a title (such as 'Dentist' or 'Dental Practitioner') implying that he is registered. The clause which other Courts had regarded as implying a wider prohibition—namely, the prohibition of any claim to be 'specially qualified to practise dentistry,' whether expressed by the use of a title or conveyed by general words importing personal skill and competence—is now decided to be no more than synonymous with previous clauses, and therefore to be in itself mere surplusage.

"The Dentists Act has hitherto been thought more stringent than the Medical Act, if not quite so stringent as the law dealing with veterinary practice. But the former Act now proves, when interpreted by the ultimate tribunal, to afford no greater protection to the public against the unqualified practice of dental surgery than the Medical Act affords against the unqualified practice of medicine, and much less than the law confers with regard to the medical treatment of domestic animals. So long as the unqualified person avoids the direct use of certain professional titles, he may use such other misleading descriptions as his ingenuity suggests, and the present law imposes no restraint upon him. On April 1 of the present year the provisions of the Midwives Act came into full operation, and it is now a punishable offence for a woman habitually and for gain to practise midwifery or to call herself a midwife unless she is legally certified and enrolled. But any person, however ignorant, may habitually and for gain undertake to practise medicine, surgery, or dentistry without being required by law to furnish any evidence of his training or skill. The public who resort to him must perforce accept his own statements as to his competency to treat their disorders.

"There are not wanting indications that the public are becoming aware of the insufficiency of the existing law. The wide publicity given to the House of Lords' judgment has not been without effect in this direction, so far as concerns the dental branch of surgery. The Report on Anæsthetics has called attention to the unprotected state of the public in another direction. And now I learn with much satisfaction, through Sir Almeric FitzRoy, that arrangements are in progress for the publication, in the form of a Parliamentary paper, of the information on the subject of unqualified medical practice collected by the Local Government Board. That Department, we are told, has received a large body of valuable and important evidence in response to the circulars which, at the instance of this Council, it issued to the medical officers of health throughout the country. For the formation of an enlightened public opinion—and, may I add, of an enlightened Parliamentary opinion?—an authoritative compilation of the kind now promised is almost a pre-requisite. I trust its publication will prove to be only the first-fruit of the labours of Dr. Langley Browne's Committee on Unqualified Practice."

The President next spoke about the introduction into Parliament, by private members, of measures which include provisions bearing on the practice of medicine, and affecting directly or indirectly the medical interests of the public. He also referred to the British Medical Association's application for a charter, and concluded with an outline of the business of the session.

After the President was thanked for his address, he moved as the first business that an address to the King be adopted and transmitted. This was agreed to, the members standing.

After some formal business, the resolution of the Executive Committee recommending the recognition for registration of the holders of the licence granted by King Edward's Island was adopted.

Prescribing and Nostrums.

With regard to unqualified medical practice a letter from the Local Government Board, in reply to a question addressed by the Registrar, stated that a large body of valuable and important evidence has been received by the Local Government Board in response to circulars issued by them to the medical officers of health, and arrangements are now in progress for publishing a Parliamentary paper on the information received. The correspondence was received and entered, and a motion of thanks to the Local Government Board for their information was passed. Dr. Latimer rose to express his sense of the great and growing scandal of illegal medical practice, urging that the present is an opportune time to take steps to prevent it. Measures were adopted to protect the community in every way, except in this one important particular. Medicines of a most potent kind are sold to the public in soothing-syrups, etc., with no indication or label of the contents of the bottle. When members of the Legislature were convinced of the danger of this, the public would not be allowed to try patent medicines issued by quacks; as in the case of grocers who adulterate, a label should by law be required to specify what the pill or medicine is composed of. It was extraordinary that people should be allowed to trade as medical herbalists. They did not confine themselves to herbs, but sold drugs which did not come under that category at all: he sincerely hoped they would be hit. He trusted that when the large mass of evidence collected by the Local Government Board was made known, the huge sale of quack medicines would be restricted, if not abolished.

Pharmacopœia Committee.

Dr. Little desired to retire from this committee in favour of Sir William Whitla, and accordingly the following were appointed: President, Sir Donald MacAlister (Chairman), Dr. Norman Moore, Sir George Philipson, Dr. Caton, Dr. Barrs, Sir Thomas Fraser, Dr. McVail, Sir John Moore, and Sir William Whitla.

After some details given by the Registrar of the pains taken to ensure the accuracy of the Register—of the 40,000 names 960 only had now not been traced—the Council retired *in camera* for the remainder of the afternoon.

A Penal Case

occupied the Council during Wednesday afternoon. Several witnesses were called, and the gallery was full of strangers. David Thomas Jones, M.R.C.S.Eng. and L.R.C.P.Lond., of Rock House, Wostenholm Road, Sheffield, was charged with having knowingly allowed an unqualified assistant named Wm. Perry to attend a Mrs. Nicholson in her confinement, and subsequently to fill in the notification of birth, giving the name of Dr. Jones as the doctor attending the case. The accused attended, accompanied by Mr. Waddy, K.C.; the complainants, the British Medical Association, were represented by their medical secretary, Mr. Smith Whitaker. Sir William Whitla, Dr. Saundby, Dr. Dixon Mann, and Dr. Newsholme, members of the Association who have seats on the G.M.C., withdrew from the hearing of the case and sought places in the gallery. The matter had been set on foot by Dr. Scurfield, Medical Officer of Health for Sheffield, in his official capacity, and as local practitioners declined to incur the odium of animus or jealousy, the case had perforce to be taken up by the B.M.A. The evidence showed that Perry only had attended the woman during and after the birth; three days later the mother was sent to the workhouse infirmary in a dangerous condition, suffering from septicæmia. There she died. At the request of the husband the body was exhumed and an inquest held. The jury returned a verdict of death from natural causes, but gave the opinion that deceased should have been attended by a qualified medical man. Dr. Scurfield appeared, and was examined, and held his own in a little brush with Mr. Waddy, who cross-examined him at length. Dr. Jones, in giving evidence, stated that he had been practising twenty years in Sheffield, and has now three partners and a qualified assistant. Perry was employed as dispenser and to render first-aid in emergency cases when none of the qualified partners was available. (To "hold the fort," it was suggested.) He had attended 300 confinements before he went to Dr. Jones, and was competent, but one of the partners was always present except on this one occasion; he never prescribed, and only gave medicine in the case of repeats. A series of unfortunate coincidents prevented the witness attending the patient in this instance; he sent Perry to report as to temperature. With regard to the notification of birth, it was a notification to the Medical Officer of Health only, and not a certificate, and witness held that, though he was not present at the birth, he was the doctor attending the case; he had paid seventeen visits during the six previous weeks. Numerous questions were put through the chair, and the accused was examined at length by his counsel and by the Council's legal assessor, and was very ready with his replies. After half an hour's deliberation *in camera* the President announced that David Thomas Jones had been adjudged guilty of infamous conduct in a professional respect and that his name would be erased from the Register.

A charge against Dr. H. V. Taylor, 234 Alfreton Road, Nottingham, was not proceeded with. It was in regard to canvassing by a friendly society of which he was medical officer, and Mr. Smith Whitaker was now satisfied that Dr. Taylor had not approved of that canvassing, and ceased to be connected with the society as soon as it came to his knowledge.

New Books.

Allen's Commercial Organic Analysis. Edited by H. Leffmann, M.A., and W. A. Davis, B.Sc. Vol. II. 9½×6½. Pp. 520. 21*s*. net. (J. & A. Churchill.) [This volume deals with fixed oils, fats and waxes, higher fatty acids, soap, glycerol, cholesterols, wool-fat, and cloth oils.]

Baskerville, C. *General Inorganic Chemistry.* Cr. 8vo. 3*s*. 6*d*. (D. C. Heath.)

Greene, C. L. *Medical Diagnosis: A Manual for Students and Practitioners.* 3rd edit. 8×5½. Pp. 746. 15*s*. net. (Rebman.)

Hale, W. J. *Calculations of General Chemistry.* 2nd edit. Cr. 8vo. 4*s*. 6*d*. (Bell.)

Leftwich, R. W. *The Preservation of the Hair.* 3rd edit. 12mo. Pp. 134, swd. 1*s*. net. (Simpkin.)

Wickham, L., and Degrais, Dr. *Radiumtherapy.* 9¾×6½. Pp. 323. 15*s*. net. (Cassell.)

Postal Address:
C & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS LONDON."
Telephone No.: BANK 852 (two lines).

The object of this Department is to supply names and addresses of Manufacturers of, or Agents for, goods pertaining to the Chemical, Drug and Allied Trades. The "Buyers' Guide" in each issue of "The Chemist and Druggist" affords much information, but inquiries for anything not referred to therein may be addressed to this Department. Replies will be furnished immediately, or inserted in this section free of charge.

INFORMATION WANTED.

We would be obliged if any reader would reply by postcard or telephone to one or other of the subjoined inquiries.

173/47. "Robusta wine": makers or selling agents.

172/9. "Bullock's Pain Subduer": proprietor or supplier.

178/49. Suppliers or proprietors of "Lichford's Smelling Salts."

172/48. Makers of a small hand-machine for filling tablets into bottles.

179/17. Rutger's (?) "Army and Navy" suspenders: where obtainable?

174/56. Toilet paraffin marked "L. B. & Co.": who makes or supplies?

171/6. Who makes or supplies "Eau de Rouille" for cleaning silks, etc.?

171/72. "Vioflor," for giving a turpentine odour to benzine: who makes or supplies?

172/25. Where can supplies of "Therax" or "Therox" (used in a shampoo-powder) be obtained?

INFORMATION SUPPLIED.

During the past week we have answered inquiries regarding the following articles. The information will be repeated to any other inquirers who send to the Department a stamped and addressed envelope for the purpose.

Address of Weiss, truss makers (177/40).
Aletris cordial, makers and agents (175/60).
"Arsenauro," makers and British agents (175/60).
"Bromidia," manufacturers, Paris and London agents (175/60).
Cactina pellets, manufacturers and London supply (175/60).
Casein, makers (176/40).
"Celerina," proprietors and London agents (175/60).
Cellasin tablets, makers (174/60).
Cousins's ear-drums, supply (177/56).
"Crembas," American supply (175/69).
Culinary essences, etc. (for Newfoundland), makers and exporters (176/50).
Cuticura soap, makers and London agency (175/40).
Dadirrion's matzoon, makers (177/57).
Elliman's embrocation, makers (173/42).
"Floatall" water-wings, supply (173/35).
Fly-papers, particulars and machines (174/70).
"Galvanit," particulars and makers (173/69).
Goddard's plate-powder, maker and London agent (174/60).
"Gutta Vitæ," makers (174/60).
Insect-powder blowers (wooden), supply (173/34).
"Isola" flask, address of makers (173/45 and 174/1).
Mackenzie's arsenical soap, makers (174/60).
"Maltopepsyn," makers and British agents (174/55).
"Mersyren," makers (173/49).
"Monkey Brand" soap, wholesale supply (173/42).
Naldire's dog soap, makers (174/60).
Parazone bleach, makers (175/63).
"Pazo" ointment, proprietors (175/50).
"Pearl Dust" for water-softening, supply (175/63).
"Plantol" soap, makers (173/42).
Powder-measuring machines, makers (176/61).
"Pyocyanase," makers and supply (174/59).
"Rhycol" treatment for adenoids, address (175/21).
Sheet celluloid, extra thick, makers (173/26).
Therapion, makers (174/60).
Veno's cough-cure, proprietors, (174/60).
"Vetarzo" brain and nerve food, makers (173/42).
"Zoolak," actual manufacturers (177/57).

Apyrol consists of a mixture of antipyrin 52.37 parts and quinine sulphate 47.96 parts.—*El Restaurador Farmacéutico.*

Nauclea Excelsa, a rubiacea indigenous to Java, is the latest addition to the plants recommended to cure the opium-habit (Gehe's "Berichte"). The leaves, which possess a peculiar narcotic smell, are used to prepare an infusion, which, when taken, is said to cause an intense disgust to opium-smoking. A small quantity of a yellow essential oil was obtained from the drug, which, on standing, crystallised. From the leaves an alkaloid—naucleine—was isolated, which crystallises in white needles and melts under decomposition at 264° C. Its formula is given as $C_{21}H_{26}N_2O_4$.

Observations and Reflections.

By Xrayser II.

"As You Were,"

appears to have been the *mot d'ordre* among the members of the Pharmaceutical Society in the matter of the election of councillors. I suppose that the result means that the work of the Council during the past year has met with the approval of their constituents—a somewhat large assumption considering that something like half the electors did not take the trouble to record their votes. It is not often there is such a close fight for the last seat, but even though he has only two votes to spare congratulations are due to Dr. Symes on again getting back to the Council board. Always a shrewd, level-headed man, Dr. Symes may be trusted to continue the good work he has done in the past. The most disturbing feature of the election from the point of view of the "old gang" is the fine showing made by the new men. Mr. Ridley has done exceedingly well for a trial trip, and it is to me a distinct surprise that Mr. Dowty has polled as many as a thousand votes. The large poll cast for the two assistants is an ominous sign in view of the time when the younger members realise their strength to the full. The past year's work of the Society, which has received such unqualified approval, cannot by any stretch of the imagination be said to have presented a single feature beyond the most humdrum routine. Perhaps this is all to the good, for societies, like men, are most likely to be happy when least is heard about them. The most startling episode was the Chairman's naïve confession that the Council had spent 180*l.* to secure 69*l.* What a brilliant stroke that was of the genius who conceived the idea of an annual shillingsworth. Some people thought, and were rude enough to say so, that the Minor certificate was all that was required, but it seems these unkind critics "misunderstood" the leniency and moderation of the Council.

The Attack on Salt

bids fair to develop into a new cult, or possibly into a new Church. The zeal of the one-ideaed person is appalling, and if the idea happens to be founded on a supposed fact of which he has any personal knowledge the almost universal experience of mankind counts as nothing against it. We have seen a correspondent argue that salt must be generally harmful because a sister of his own who was addicted to its use afterwards died of consumption; and probably Mr. Harris's moderate statement, founded on statistics, that the excessive use of salt is injurious will be twisted into an argument that in any quantity salt with food is poison. Mr. Harris himself argues that the prohibition of boric acid as a preservative, by inducing a larger use of salt, has greatly increased the number of deaths from kidney disease (of which there is no proof), and lends credence to the entirely gratuitous supposition that salt is responsible for

The Increase of Cancer.

But what has not been held responsible for the increase of cancer? And did not cancer increase as fast while boric acid and other preservatives were largely superseding salt? One cannot but be both amazed and amused at this modern craze for prohibiting things which in all ages and all climes have been used and enjoyed by all men without obvious ill-effects. Should salt be placed upon the *index expurgatorius* we shall be obliged to revise the English language (to say nothing of the older tongues), in which it has become a synonym for all that is excellent, or that gives life, or point, or piquancy, whether to persons or things. "Salt," says an old writer, giving voice to the science of his time, "is that fixt permanent earth which is in the center of every thing that is incorruptible and inalterable." Paracelsus says that mercury is the spirit, sulphur the soul, and salt the body of all metallic substances; salt he calls "the earthly balsam of man and of all things else"; it is not only the universal preservative, without which everything would fall into decay, but its virtues as a medicine are wonderful, and without it everything we eat is unwholesome. There is doubtless much exaggeration in all this, but it is not so absurdly contrary to experience as the prohibition of salt by some modern faddists.

English-grown Saffron

was considered so superior to that imported from abroad that it is difficult to understand why its cultivation in this country was allowed to cease, as it did about the middle of the eighteenth century. A writer in Hakluyt (1582) says: "Saffron, the best of the universal world, groweth in this realme"; but even then the cultivation of the plant here appears to have been languishing, for he speaks later of the desirability of reviving the trade for the benefit of the unemployed about Saffron Walden, which had been the centre of the industry. Gerard, who devotes nearly fourteen whole pages to a description and illustration of different varieties of crocus, speaks of the "best-known saffron" growing in that neighbourhood as plentifully as corn in the fields, but says nothing about its cultivation. None of the crocuses is really a native of England, and the introduction of the saffron crocus into the country is one of the mysteries of plant-lore. The writer in Hakluyt already referred to says it is reported to have been smuggled over by a pilgrim in his palmer's staff at the risk of his life. Coles ("Adam in Eden") attributes its introduction to the Romans, but this is unlikely. It was here, however, at an early period. Pliny says its native habitat is Cilicia; Birdwood traces it back to Cashmere. Its vogue in medicine was enormous, and it is said that in the fifteenth century several persons were burnt to death at Nuremberg for adulterating it. The name is of Arabic origin. Strange, indeed, that an industry of such importance as to have given its name to a town should have died away so completely!

The Statement

that "naturally exuded gum from wild untapped trees in unowned forests is now practically unknown," made in the article on gum arabic in last week's *C. & D.*, must be taken as applying to the province of Kordofan, from which we now receive virtually all our best gum. In Sennaar, on the other side of the White Nile, immense quantities of an inferior but still merchantable gum are running to waste, partly owing to the competition of Kordofan, but partly also to the almost entire depopulation of the country by the late Mahdi. Mr. Lincoln Tangye, in his recently published volume "In the Torrid Sudan," gives a most interesting account of this district, and of the acacia "scrub" which clothes a considerable part of it. Most of the bush in the Sudan (he says)

"consists of numberless small, straggly specimens of the various acacias, sunt, hashab, talh, and kuk, which produce gum arabic; and in certain favoured spots the sunt (*acacia arabica*) is found particularly well grown, the wood being large enough for timber as well as for firewood. It is, however, very hard."

The finest specimens he saw were at Khor-el-Seneil, on the Dinder, a confluent of the Blue Nile, and near the Abyssinian frontier. That the gum obtainable here would pay for gathering, were there any people to gather it, may be inferred from the fact that it was formerly an article of profit all over the district. Mr. Tangye says that the natives in his company would frequently bring him specimens of the naturally exuded gum. Of the talh, one of the trees bearing it, he gives a particularly graphic description. In some places where it abounds it looks as if painted from base to topmost twig with a preparation of whitewash and sulphur, easily dislodged and staringly white. This is due to the fact that the trees peel annually. Other varieties are tinted a vivid red from the same cause.

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Editorial Articles.

Criticisms and Fallacies.

THREE features of the annual meeting of the Pharmaceutical Society of Great Britain held last week deserve to be recalled: first, the unusual number of candidates for seven seats on the Council; second, the meagre attendance at the meeting and comparative lack of interest in the proceedings; and, third, the President's replies to criticisms of the Council's conduct in certain matters. The first and second of these features counteract each other. The nominees appeared to desire to do something that the retiring members had not done, but the members did not share that view, for fewer voted than in 1909, the figures for the two years being as follows:

	1909	1910
Voting-papers issued	6,881	6 882
,, ,, returned ...	3,733	3,704

In 1909 eight candidates were in the field; this year thirteen. Last year two new candidates were returned, and one old councillor (Dr. Symes) rejected; this year Dr. Symes has been returned, taking the place of one retiring councillor (Mr. Rowsell), and none of the other five new candidates has obtained a seat. The narrow majority of two between Dr. Symes and Mr. Bilson is a high compliment to the latter, who is better known as a practical pharmacist than as an administrator or politician. He will no doubt get the first vacancy on the Council, for it has been understood that the "Square" party put him forward. The moral of the election is "diminished interest in the Council and its work." For the present we do not attempt to elaborate this, except as it was covered by the President's address. As to the character of this, we need not repeat what we said last week. It was a good speech, and THE CHEMIST AND DRUGGIST alone reported it fully from beginning to end; but it contained several fallacies which should be disposed of, lest they be repeated, and we accordingly deal with a few.

> "I am not sure that the Council could be adversely criticised if it claimed the additional five or six hundred members during the year as an emphatic vote of confidence."

The "if" was not used by Mr. Harrington to repel retort: he made the statement in the honest belief that the repeated assertion of the official journal was true, but as a matter of fact the additional membership revealed by the voting-papers is ONE! That is a fact which was available for the President at the time of his speech (seeing that the voting-papers had been sent out), and if it had been given to him he would have paused before speaking of a vote of confidence. The circumstance which he mentioned was purely ephemeral, and was due to the "conspiracy" referred to next.

> "It has been insinuated that the whole thing was a conspiracy to replenish the impoverished coffers of the Society."

This is the retort to criticism in regard to the certificates of qualification required by Section 3 of the 1908 Act.

Surely Mr. Harrington did not deliberately avoid the point of that criticism? It was that officers of the Society insistently declared that the Minor and Major certificates did not meet the requirements of the section, and that it was necessary to become members of the Society, as the certificate to that effect alone meets the requirements. This was the "conspiracy to replenish the coffers of the Society," and it succeeded fairly well, as hundreds paid their guineas who merely desired the membership certificate. The shilling certificate was kept in the background, and the fallacy regarding the Major and Minor certificates was repeated until we obtained and published the opinion of Mr. Danckwerts, K.C., to the effect that the Society's officers were wrong. The "conspiracy" was a mere touting for members, and quite unworthy of the Society, which is provided by statute with an income more than sufficient for its statutory work.

"I see that it has been pointed out that the amount for postage of the 'Journal' is less than it was twelve months ago, and that such diminution would seem to point to a decrease in the circulation rather than the reverse. The explanation is very simple . . . the reason that the postage account is so much smaller is that the amount for the final month in 1909 was not included in the accounts."

Surely there is something far wrong in the accountancy department! The idea of carrying on a business and omitting to record during "the final month of the year" an item of expenditure amounting to between 10*l.* and 20*l.* a week is incomprehensible. It was the *C. & D.* which pointed out the discrepancy; but Mr. Harrington's skilful reply now reveals the fact that it is possible to prepare the accounts of the Society for a year and get them audited as correct, yet omitting expenditure in a department during "the final month of the year"! We do not forget that the President also said: "The accounts are not presented to you in the form that those of some corporate bodies are—bodies that may be desirous of disguising shady transactions—but are presented in a form agreed to by the auditors whom you appointed and chose at the last annual meeting."

"It hardly seems fitting or fair to make the members of the Pharmaceutical Society pay the whole cost of fulfilling its valuable public duty."

Here Mr. Harrington referred to the sum of 15*l.* 6*s.* 10*d.* paid for law costs during the year. To those who have followed the progress of the Society since it was entrusted with the administration of the Pharmacy Act, 1868, the notion that the members of the Society pay for anything but what they get is a pure fallacy. Law costs, and all other costs of administering the Act, are paid for by the examination and registration fees. We have proved over and over again that the Society has been enriched by the surpluses from these fees after discharging all liabilities incurred by its statutory duties. During 1909 the Society received 7,554*l.* 13*s.* from examination and registration fees, and the only direct expenditure shown in the accounts was 1,992*l.* 14*s.* 1*d.* for examination-expenses, leaving a surplus of 5,561*l.* 18*s.* 11*d.* The balance of the expenditure on law proceedings was 835*l.* 6*s.* 10*d.*, and was met out of the above surplus. There then remained to be spent 4,726*l.* 12*s.* 1*d.* of the examination and registration fees—about double what is required to pay for the Secretary and his staff and all the expenses of housing them in Bloomsbury Square. Far from the complaint being that the President expressed, it should be: What does the Pharmaceutical Society do with all the money it gets? Besides the surplus of 4,726*l.* 12*s.* 1*d.* mentioned above, it received last year 329*l.* 2*s.* interest on investments, and 7,688*l.* 12*s.* 6*d.* from members, a total of 12,744*l.* 6*s.* 7*d.* We have shown that the examination and registration fees pay for everything in connection with the administration of the Pharmacy Acts, and that not a single farthing of the members' subscriptions is required for these statutory purposes. On the contrary, the 1868 Act has from the beginning provided revenue apart from the members which would have been lavish for an independent administrative body such as a board of pharmacy. Had such a board been entrusted with the money it would necessarily have been compelled to expend it on behalf of those entering for or passing the examinations; it would have established a large system of trade defence through the statutory channels, and reduced examination-fees. But the Council of the Society is the 1868 equivalent of a board of pharmacy, and it has used the surpluses, and continues to use them, for objects which are not available to registered chemists as such. Thus two departments of the Society's business, which are not required by statute, have absorbed over 80,000*l.* in forty years. These are commercial departments, which could not have been kept up with the income from members, and they have been maintained on a competitive basis by increasing the examination-fees. These facts are shown by the Society's accounts, which also show even more clearly that the members of the Society do not contribute to the public administration of the Pharmacy Acts.

Dispensing and Prescribing.

"Should the Dispensing of Medical Prescriptions be exclusively confined to Pharmacists?"—*Subject of discussion by the British Pharmaceutical Conference, opened by Mr. J. F. Tocher, at Newcastle-on-Tyne, July 27, 1909.*

"That this matter be referred to the Executive Committee of the British Pharmaceutical Conference to consider, and, if thought advisable, to confer with the British Medical Association in reference to it."—*Resolution come to after the discussion.*

Proposed Conference with the British Pharmaceutical Conference upon the Question of Dispensing by Medical Practitioners.

105. The President of the British Pharmaceutical Conference having approached the Association with regard to the holding of a Conference between the two bodies for the purpose of discussing the various aspects of the question of dispensing by medical practitioners, arrangements have been made for such a Conference to be held on May 19, 1910.—*Extract from the Report of the Council of the British Medical Association.*

In connection with unqualified medical practice a large body of valuable and important evidence has been received by the Local Government Board in response to circulars issued by them to the Medical Officers of Health, and arrangements are now in progress for its publication.—*Sir Almeric FitzRoy in a letter to the General Medical Council.*

We bring these matters together as they constitute the opening of what will probably be one of the most momentous negotiations which have ever occurred in British medicine and pharmacy. When the subject of dispensing by medical men was discussed before the Conference last year, there seemed little hope that any practical achievement would come out of it; but during the months which have since elapsed, such progress was made in negotiations with the British Medical Association that a meeting of about twenty representative pharmacists and physicians was called on Thursday, May 19, when the whole matter was thoroughly discussed and a representative committee of both sides appointed to continue consideration of and action in regard to the initiatory subject and others allied to it. The official reports of the Conference Executive meeting held in the forenoon, and of the combined meeting held in the British Medical Association's house in the afternoon, are not ready for publication, and we do not attempt to anticipate them, further than to say that the outcome so far seems to be the most conspicuous piece of work of this character done by the

Conference since its foundation. It is, besides, remarkably timely. The action of the General Medical Council in regard to unqualified medical practice has been seconded by the Local Government Board, which has collected evidence from Medical Officers of Health, and this is being prepared for publication. At the meeting of the General Medical Council on Tuesday, Sir Donald MacAlister, in his presidential address, spoke strongly of the need for more stringent statutory restriction of medical practice, and later in the session one of the members hinted broadly that counter-prescribing and nostrum-vending should come under the ban. If his aspirations are realised only to the extent of being considered when the new principles for a Medical Bill are formulated, it is of the utmost importance to chemists and druggists that they should be in touch with representatives of medicine. This is already provided through the Conference movement, and it will probably not be disadvantageous to chemists that the statutory bodies, the Pharmaceutical Societies of Great Britain and Ireland, should reserve their independence of action, as they may be called upon to protect such of the interests of their licentiates as are established by generations of practice and reserved by Acts of Parliament. We are not anticipating attacks by the medical profession upon the rights of chemists and druggists, but the subjects involved imply giving as well as taking. It is desirable that retailers should realise from the outset that this is not an academic matter, but a bread-and-butter one. It should be watched and considered right from the beginning by all retailers, as it is expected that the outcome of the Local Government Board's inquiry will be definite proposals for further controlling the prescribing, dispensing, and sale of medicines.

Methylated Spirits Regulations.

Inconvenience and disappointment having been caused through the attitude of Revenue officials in objecting to approve certain premises for methylating-purposes, the Board of Customs and Excise have endeavoured to prevent in future any just cause for complaint on the part of disappointed applicants by the issue of a General Order, which clearly states that the precautionary initial step for persons contemplating taking out a methylator's business is to submit plans of premises and obtain official approval. The new Order is as follows :

Provisional Approval of Methylating Premises.

The following addition is to be made to paragraph 9 of the Methylated Spirits Instructions:

"Any person desiring to commence business as a methylator should be requested to submit a plan of his proposed mixing-room and naphtha-store for provisional approval, and no encouragement should be given to an applicant to proceed with the erection of buildings until the matter has been considered by the Board."

It may not be generally known that several conditions are required before Revenue officials will sanction the use of premises for methylation. Among them are questions of sureties, good ventilation, sufficiency of light and accommodation, general situation, and especially the proximity of potable liquors—spirits in particular. No plan will be complete if it does not show the relative situation of any rooms used for storing potable spirits, the object of the authorities being to grant no facilities for mixing methylated spirit with the potable variety. The accommodation includes a suitable naphtha-store separate from the "mixing-room," and this particular store has to be constructed on the lines of a bonded warehouse—fixed vats of prescribed capacities, proper fastenings on door, cocks, and hatches, barred windows, etc. Measures, weights, scales, desk, etc., to be approved also. From the revenue point of view the methylator is a most important trader, and the utmost care and inspection are exercised over his operations, stock, and business. The Finance Act, 1909-10, has privileged the licensed methylator by leaving him alone, but not his competitors the distiller and rectifier, both "authorised" to methylate. There is a ten-guinea annual licence to take out by a methylator, but this particular licence has not been insisted upon by the Legislature when the methylator was a licensed distiller or rectifier, who already paid this amount to carry on their respective businesses. But, instead of ten guineas, both the distiller and rectifier have to pay far more. The distiller's licence now is a *pro rata* affair, with a minimum of 10*l.* for a quantity not exceeding 50,000 proof gals., and running by increments of 10*l.* for the first 50,000 proof gals. above 50,000, then for every further 25,000 proof gals. or fraction thereof above 100,000 proof gals. The rectifier or compounder of spirits has had his licence raised from ten to fifteen guineas annually.

King Edward's Opsonic Treatment.

The medical attendants on King Edward VII., in a report on his last illness communicated to "The Lancet," stated that he had recently received vaccine treatment, this being administered by Dr. H. R. D. Spitta, bacteriologist to the King's household. No reference was made in the report of the effects of this treatment, which, no doubt, was opsonic in character. The statement, nevertheless, was seized upon by anti-vaccinationists, and their imaginative deductions from it called forth the following official communication to the Press on Monday, May 23:

"Queen Alexandra is very grieved that a report has been printed and circulated by some society that the death of the late King was caused by a vaccine treatment he had received to prevent his contracting influenza or pneumonia before his Majesty's journey to Biarritz. Queen Alexandra wishes it to be known that before the late King left England he had never felt better in health and spirits than after this treatment, for it had kept him in excellent health, to his Majesty's entire satisfaction, for no less than fifteen months. Queen Alexandra wishes it stated that his Majesty's attack at Biarritz was in no way related to his previous course of treatment."

This disclaimer might have been avoided had the reference to the treatment in the physicians' report been somewhat more informative, for as it stood it was capable of misconstruction.

Perfumes in Plants.

Following our remarks on the scientific work in the domain of essential oils that has been accomplished from a practical point of view in the distillery, and embodied in that excellent treatise by Dr. von Rechenberg, we now call attention to the summarised work of Charabot and his pupils, who have carried out much valuable experimental work which could not have been possible to the average chemist. As is well known, Charabot has made a special field of work for himself in the investigation of the effect of outside conditions and environment on the development of perfume-bearing plants, and also on the actual processes of development and evolution of the various constituents of essential oils in the plant tissue. All this has been summarised in "Le Parfum chez la Plante," a book of some 400 pages, published as one of a series devoted to biological chemistry in the "Encyclopédie Scientifique," published by Doin, of Paris. The acreage under cultivation to which Dr. Charabot has had access must have been very large, and the resources of a large distillery have also been at his disposal. Messrs. Roure Bertrand & Co. have done much to encourage this work, and have placed the resources of their establishment at the disposal of the

author. Careful study of the experiments which have been carried out by Charabot and his associates demonstrates that the external conditions which can be controlled in the cultivation of essential-oil-yielding plants have a marked effect on the quantity and quality of the resulting essential oil. This being the case, the question of manuring, for example, becomes a purely scientific matter, and Charabot has pointed the way to results in this industry which were in earlier years suggested in another direction by the Rothamsted experiments. But perhaps even of greater importance are those results which indicate the limitations of the various secretory processes of the plant, so that the exact period of greatest activity or the time at which secretory functions are exhausted can be accurately followed. The results which indicate the evolution of the perfume are also of great scientific interest, but as in many of these cases the processes cannot be controlled externally the interest is more theoretical than practical. It has been proved by definite experiments that the process of fertilisation uses up more perfume than is produced in other parts of the plant during the same time; also that at a given time the functional powers of a given organ cease, and perfume continues to be used up in the plant economy—both results which have deep practical as well as theoretical interest. It is in experiments of this character that the flower-grower and distiller find practical benefits to their industry, as they can control the time of harvest and the methods of cultivation to such an extent as to insure the maximum yield of essential oil when it is at its best in quality.

Epsom (Salts) Stakes—The Finish.

When we published our Pharmaceutical Council Election cartoon, we promised to present a copy of the "Chemist's Medical Dictionary" to those who correctly named the "also rans"—that is, those who failed to get seats on the Council. The combined vote of the whole who voted by postcard was correct, but, strange to say, only four voters correctly named all the six who failed to secure places, and, stranger still, three of these succeeded in placing only one properly—viz., Mr. Bilson. Each of these competitors is entitled to receive a copy of the "Dictionary." They are:

Mr. Bernard Beer, Colwyn Bay.
Mr. A. Crossley, 73 Shaw Heath, Stockport.
Mr. T. Harvey, 2 Salcombe Road, Plymouth.
Mr. W. T. Hopps, Albert Road, Stechford.

The adjudication also shows that thirteen more competitors correctly named five of the "also rans," and three of them placed three of the candidates in the order of running. We propose to give them Dictionaries also, as the right placing of three is worthy of recognition. These competitors are:

Mr. George Lunan, 20 Queensferry Street, Edinburgh.
Mr. W. Nimmo, St. Luke's Cross, Pallion, Sunderland.
Mr. R. T. Willis, 184 Shields Road, Newcastle-on-Tyne.

The race as originally depicted in the cartoon (*C. & D.*, May 7, p. 709) was a happy hit. The Sheffield blade (Newsholme) looked a winner, and came in easily first. Then White was running strong and comfortably for the space next the fence, between Symes and Currie. That achieved, he would have been ahead of Gibson (then running second) and next to Newsholme. This is what happened, and Gibson was third. Gifford had his eye on White, and being on the outside of the bunch to the right, urged his horse ahead of Hagon, Symes, and Currie, and secured fourth place; Currie, Hagon, and Symes also securing places in that order. The cartoon showed Bilson's horse ahead of the other new candidates in the eighth place, and the race turned out just so.

The cartoonist has depicted the finish of the race in the above sketch (it must not be assumed from this that White rode for a fall). A rhymer submits the following verses, which he entitles

Ut Antea.

When pharmaceutic paleologists write,
In years to come, the Treatise of To-day,
They'll quote crude sparklets from th' outspoken Knight
Who lashed with scorpions timid souls at bay.
They'll tell of incense burnt to Heaven by those
Who gathered yearly by the Bloomsbury Board;
The weary hand-clap, speech full comatose,
That, now and then, into th' Empyrean soared,
As when sesquipedalian Gilmour carved
Brave nuggets from the Seam—well-worn and starved.

Wild tales they'll record of the clarion call
Of grim Reformers from the Yorkshire wolds;
Of Sargeant struggling, riding for a fall:
Ridley and Rowsell wrapped in Failure's folds;
Bilson so near, yet ne'ertheless so far
(Whom Symes outdistanced by a "measly" Two);
The Tribe of Nuap breathing gory war,
Themselves the only enemy they slew:
In vision Nuap's slaughtered Chiefs they'll see,
The doughty Dowty and Cheltonian Three.

Ah me! the æons that have passed us by
Since first we hoped that Pharmacy would wake
And burst her bureaucratic fetters. So we sigh:
"Not yet! The Tape is still too strong and red to break."

U.S.P. Convention.

THE Ninth Decennial Convention of the United States Pharmacopœia took place at the Hotel Willard, Washington, on May 10 to May 12. Dr. Otto A. Wall (Vice-President) occupied the chair in the absence, through illness, of the President (Dr. H. C. Wood, Philadelphia). The official recognition of the U.S.P. in Cuba and Costa Rica accounted for the presence of delegates from the University of Havana and an address by the Hon. W. L. Merry, Minister from Costa Rica to the United States. The Convention was welcomed by the Hon. Charles Nagel, Secretary of Commerce and Labour, who referred to his co-operation with the Department of Agriculture in carrying out the Food and Drugs Act.

The President's Address.

Dr. Wall then read the address of the President, Dr. H. C. Wood, who occupied the same position in the Convention of 1890 and 1900. The address, dictated from a sick-bed, likened the position of the Convention to the Brothers of Trinity House, which under a charter of 1573 lights and buoys the English coast. The Convention exercises legal governmental authority, although an independent body. Dr. Wood urged that membership should be strictly guarded, scientific and practical fitness being considered rather than geographical representation. Reference was made to the International Conference for the Unification of the Formula of Heroic Medicines held in Brussels in 1902, at which the President of the Convention and Dr. F. B. Power represented the United States. The Committee of Revision of the U.S. Pharmacopœia Convention has in great measure conformed to the recommendation of the Brussels meeting, the failure to do so completely being the one blot on its work. Dr. Wood did not agree with the suggestion to create a permanent institution for the unification of Pharmacopœias. The address ended as follows :

In April 1860, as a medical student, eighteen years of age, by finishing a paper on the Carboniferous Flora of the United States, published in June by the Philadelphia Academy of Natural Sciences, I commenced my public scientific career ; in April 1910, with the writing of this address I close it. A half-century has passed, most of it spent in over-strenuous labour, so that the evil days spoken of by Solomon, the Poet-King, have come to me before the threescore and ten years have ended ; and so I bid you farewell.

Reports.

The Secretary (Dr. H. M. Whelpley, St. Louis) submitted a report, and the Treasurer a financial statement, showing that the receipts for the ten years ending April 30 amounted to $176,016.00, and the expenditure $116,097.00.

Professor J. P. Remington (Philadelphia), Chairman of the Committee of Revision, presented the report of his committee, which referred to the Spanish translation which was made by Dr. José Guillermo Diaz, who was present as a delegate from the University of Havana.

The Board of Trustees submitted proposed changes in the constitution and by-laws of the Convention, the discussion of which took up much time. The principal change was the authorisation of additional delegates from the Secretary of Agriculture, the Secretary of Commerce and Labour, the Association of Official Agricultural Chemists, the Association of State and National Food and Dairy Departments, the National Wholesale Druggists' Association, and the National Dental Association. Representation of the National Association of Retail Druggists was refused.

Election of Officers.

On the Wednesday morning Professor H. V. Arny presented the report of the Nominating Committee. Objection was made to one of the fifty members of the Committee of Revision (the number was formerly twenty-six), otherwise the whole list was approved of. Dr. H. W. Wiley was elected President, and Dr. N. S. Davis (Illinois), Charles Caspari, jun. (Maryland), Dr. O. T. Osborne (Connecticut), Leo Eliel (Indiana), and Dr. W. A. Bastedo (New York), Vice-Presidents. Dr. M. G. Motter was elected Secretary, other officials including the Treasurer, Trustees, and the Committee of Revision referred to above.

Dr. Wiley then took the chair in place of Dr. Wall.

Pharmacopœia Revision Rules.

Professor J. P. Remington was elected Chairman of the Committee of Revision, which met in the afternoon to revise the suggestions for the guidance of the incoming committee. The scope of the Pharmacopœia is thus defined :

We recommend that the Committee of Revision be authorised to admit into the Pharmacopœia any medicinal substance of known origin; but no substance or combination of substances shall be introduced if the composition or mode of manufacture thereof be kept secret, or if it be controlled by unlimited proprietary or patent rights, and the list of substances should be carefully selected, with standards for identity and purity, as far as possible. Substances used only for technical purposes should not be admitted to the next Pharmacopœia, and a statement should be placed in the preface to the effect that standards of purity and strength, prescribed in the text of the Pharmacopœia, are intended solely to apply to substances which are used for medicinal purposes or in determining the identity and purity of the same.

Average approximate doses for adults and children are to be inserted after each pharmacopœial article likely to be used internally. Official abbreviations for use in prescriptions are to be given after the titles of articles. The list of synonyms is to be enlarged. Limits of purity and strength are to be carefully revised, and allowance made "for unavoidable innocuous impurities or variations due to the particular source or mode of preparation or to the keeping qualities." The standards of the International Conference are to be adopted, but not necessarily the details of the pharmaceutical processes. General formulæ are to be introduced for groups of galenicals, and to the description of each drug is to be appended a list of the official preparations in which it is used. Alcoholic percentages are to be given in volumes of absolute alcohol. Assay processes for potent drugs and preparations are to be introduced where practicable, providing the processes are reasonably simple. Biological tests may be used and serums may be admitted "if standardised by the Government or one of the Departments." The metric system is to be retained. A Supplement to the Pharmacopœia may be prepared if desirable, and abstracts of new descriptions published before adoption. Atomic weights to be those of the International Committee (O = 16). Official methods of taking physical constants to be inserted. The standard temperature 25° C. to be retained with a table of the corresponding figures at 15° C. in the Appendix. The introduction of compound preparations to be discouraged as far as possible. Pharmacognostical descriptions to include macroscopic and microscopic descriptions and a statement of the appearance of the structural elements in the powder when examined microscopically. Powdered drugs are to represent the whole of the drug unless otherwise stated; where there is a residue in drug-powdering the amount is to be ascertained and stated in the text.

The final sessions of the Convention were held on May 12, when the financial and executive aspects of the work were dealt with. The Convention then adjourned to meet in Washington on the second Tuesday in May 1920.

Soya-beans in Germany.—The "Daily Chronicle" announces that Germany has taken the import duty off soya-beans. The duty worked out at 2*l*. per ton, and that on cake and oil was m.2 per ton under the most-favoured-nation tariff and m.4 under the general tariff.

The Ultra-microscope is now under trial in the laboratories at St. Bartholomew's Hospital. With it many live germs appear as whitish corkscrew-like bodies moving about in a fluid on a black background. As yet the ultra-microscope has only been used in studying the characteristics of a few varieties of living germs. It is expected that with the perfection of new technique its sphere of usefulness may be greatly increased, adding largely to the bacteriologist's knowledge of the habits of life and methods of growth of many varieties of micro-organisms.

The A. Ph. A.

HE annual meeting of the American Pharmaceutical Association was held at Richmond, Va., from May 3 May 7. The headquarters of the meeting was the efferson Hotel, one of the most attractive hotels in the outh for such a purpose. The President was Dr. Henry . Rusby, Dean of the New York College of Pharmacy, hich is affiliated with Columbia University. The early ate for the meeting prevented it being attended by as rge numbers as usual, but the level of the scientific and mmercial papers was well maintained.

The Sections.

It should be explained that, unlike the British Pharmautical Conference, the A.P.A. is divided into sections, hich meet simultaneously. Thus, on the afternoon of ay 3, the section on Scientific Papers and the section on ommercial Interests held sittings, while the mornings ere in the nature of general sessions. On the Wednesay evening meetings were held of the American Conferce of Pharmaceutical Faculties and the National Assoation of Boards of Pharmacy. Then on Thursday ssions on Education and Legislation and Scientific apers were held simultaneously; while on Friday the ction on Practical Pharmacy and Dispensing held two ssions, at 3 and 8 P.M. The last-named section was ntinued the next day at 10 A.M., a sitting of the section Historical Pharmacy being held at the same time. In e afternoon the final General Session of the Association as held. The Chairmen of the sections were the llowing: Commercial Interests, Mr. Waldo M. Bowan, Toledo, O.; Scientific Papers, Mr. M. I. Wilbert, ashington; Education and Legislation, Mr. Charles H. Wall, Philadelphia, Pa.; Historical Pharmacy, Mr. G. Eberle; Practical Pharmacy and Dispensing, Mr. tto Raubenheimer, Brooklyn, N.Y. There were fifty-o papers in the Scientific Papers Section, some of these ing grouped into assay-processes of the U.S.P., physiogical testing, Pharmacopœia subjects. In the Practical harmacy and Dispensing Section there was a symposium the Pharmacopœias of the World. The subject was troduced by Mr. Raubenheimer, and then Mr. Wilbert alt with the question of International Standards. This as followed by sixteen papers on various Pharmacopœias; r. E. H. Gane, New York, discoursed on the British harmacopœia.

The President's Address

alt with the work of the Association and the best ethods of carrying it on. How to increase the memberip is a perennial subject. It was suggested that more embers might attend the annual meetings if better terms r families could be arranged at the headquarters. The cal branches have been found effective in securing new embers, and the "Bulletin," the President said, may t become a powerful magnet for attracting membership. he President suggested the institution of a new class of sustaining members," who would pay an annual fee in dition to that paid by ordinary members. The latter rt of the address dealt with the U.S. Pharmacopœia, e following fundamental facts and principles bearing on e subject being stated:

1. It is a fact, perfectly well established by fifty years of icial experience, that the admission to or the deletion from Pharmacopœia of an article has scarcely a perceptible fluence upon the extent of its use. When dismissed from e Pharmacopœia because the very best professional judgnt regards it as therapeutically valueless, it will continue to used as before, the only effect being to deprive pharmats and their patrons of official standards for its control.
2. Many articles of little therapeutic activity, yet in common e, whether wisely so or not, may, through their contained purities, seriously affect the physical, chemical, or therautical preparations of prescriptions into which they enter, that it becomes necessary for their purity to be safeguarded.
3. The primary object of the Pharmacopœia is not to teach erapeutics, to influence therapeutical practice or to create incorrect, however creditable impression regarding it, but respond to the demands of such practice by providing itable information and standards for rendering it as safe d efficient as the conditions permit.
4. All preceding revisions of the Pharmacopœia have been based upon the declared principle that it is the actual use of an article that is to determine its recognition in the Pharmacopœia, in spite of considerations as to its therapeutical merit.

Dealing with education and qualification, the suggestion was made that wholesale drug-dealers should undergo a special course in pharmacognosy before being examined and licensed to engage in the business of importing or selling drugs and chemicals.

The following are abstracts of some of the more important papers which were presented at the various meetings:

Pharmacopœia Titles.

Professor Oscar Oldberg pointed out that the so-called "Latin titles" of the United States Pharmacopœia are really unaltered Latin words, less than 5 per cent. of the whole number of nouns used as pharmacopœial names being true Latin words. A resemblance to Latin has been imparted to official titles by giving their nominatives Latin-looking endings and forming their genitives according to the five Latin declensions. The author recommended that international uniformity of titles should be promoted. Long titles should be abbreviated, and names should conform with modern chemical nomenclature. He would shorten "hydrochloridum" to "chloridum" and "exsiccatus" to "siccatus" or "siccus." The names corresponding to the chemical symbols (kalium, natrium, etc.) should be preferred, and indication given of the ferrous or ferric, mercurous and mercuric salts by such titles as ferrosus sulphas (for ferrous sulphate), ferricum chloridum (for ferric chloride).

Pharmacopœial Assay-processes.

Dr. A. B. Lyons communicated a symposium on the assay-processes in the United States Pharmacopœia, with a view to introducing a discussion on the subject. The paper was on the same lines as that read at the International Congress of Applied Chemistry (*C. & D.*, June 5, 1909, p. 881).

Assay-methods of the U.S.P.

Mr. W. L. Scoville criticised the official assay-processes as regards personal preferences in methods of work, and suggested some changes. Where evaporation of a liquid is conducted to get rid of alcohol, sawdust is a better absorbent than sand. Hydrochloric acid may often be used to advantage in place of sulphuric acid for abstracting alkaloids from alkaline ether or chloroform. Emulsions formed during alkaloidal assays are often broken down by liberal use of solid potassium carbonate or strong acid. Clarifying-agents, such as talcum or kaolin, should always be used in filtering dilute acid solutions of alkaloids. The official alkaloidal methods were separately reviewed.

Alkaloidal Assays.

Dr. Atherton Seidell presented a paper regarding the distribution of alkaloids between immiscible solvents and its bearing upon assay-processes. This showed that the coefficient of distribution is constant for ranges of concentration through which no change in molecular state of the compound occurs. For increase of dilution, however, the distribution relations do not hold in most cases, and less and less of the compound is taken out by the immiscible solvent. He thinks this rule probably accounts for the divergent results in alkaloidal assay-processes.

Permanence of Alkaloidal Tinctures.

Mr. Wilbur L. Scoville reported on a systematic investigation on the keeping qualities of alkaloidal fluid extracts and tinctures. Various preparations were considered in detail, with the following conclusions: Coca, sanguinaria, cinchona, and pilocarpus preparations show deterioration (the first two "rapid," the last-named "slight"); colchicum and conium are fairly permanent; gelsemium and hydrastis show a "possible slight loss in strength." Other preparations (aconite, belladonna, guarana, henbane, ipecacuanha, kola, nux vomica, opium, physostigma, scopola, stramonium, and veratrium) all show a stability under varying conditions which is entirely satisfactory. The author reported that old preparations of the mydriatic drugs are much more difficult to assay than fresh preparations, particularly the leaf-products which require the use of alcohol during the process of extracting the alkaloids.

Data for Official Assays.

Mr. F. R. Eldred presented data obtained in the examination of official substances, which he thought would be useful to the Pharmacopœia Revision Committee. The report included the following items: *Boiling points.* Uniform method, such as that described by Mulliken ("Method for Identification of Pure Organic Compounds"), should be adopted. *Sp. gr.* should be determined at 15° 15° C. *Refractive index* is a constant of value in the examination of many oils and other

substances. *Atomic weights* should be the international oxygen standard. *Acetanilide*, m.p. limits, 113° C. to 116° C. *Acetone*, sp. gr. varies from 0.797 to 0.801. *Phenacetin*, m.p. limits, 133° C. to 135° C. *Citric acid* should contain 8.6 per cent. of water of crystallisation, less causes trouble when preparing effervescing salts. *Acetic ether* varies in purity from 89 to 96 per cent. *Aloes*, ash-yield 1 to 4 per cent., mainly below 3 per cent. *Althæa*, ash-yield 4.9 to 7.3 per cent. *Antipyrin*, m.p. 109° C. to 111° C. *Asafetida* varies very much. *Atropine*, m.p. 114.5° C. to 115.5° C. *Atropine sulphate*, m.p. 186° C. to 191° C. *Belladonna-leaves*, average 0.409 per cent. alkaloids; *root*, average 0.478 per cent. *Benzoin*, ash-yield not above 2 per cent. in most cases. *Saccharin*, m.p. 217° C. to 220.5° C *Betanaphthol*, m.p. 121° C. to 122° C. *Bismuth subcarbonate*, 91 to 91.5 per cent. bismuth oxide on ignition; *subgallate*, 51.8 to 53.6 per cent.; *subnitrate*, 79.7 to 80.6 per cent.; *subsalicylate*, 62.6 to 66.5 per cent. *Monobromated camphor*, m.p. 74° C. to 76° C. *Capsicum*, average 18 per cent. ether-soluble oleoresin. *Cocaine hydrochloride*, m.p. no value unless heated rapidly at definite rate. *Cochineal*, ash-yield, black grain, 5 to 8.2 per cent.; silver grain, 23.3 to 25.5 per cent. *Codeine*, m.p. 152° C. to 154° C. *Eucalyptol*, m.p. should not be lower than 0° C. *Glycerin*, refractive index better constant than sp. gr; should be tested for acidity. *Glycyrrhiza*, ash-yield 4 to 7.5 per cent. *Guaiacol carbonate*, m.p. 84° C. to 85.5° C. *Guaiacum resin*, ash-yield 0.2 to 4 per cent.; alcohol-soluble 67 to 99 per cent. *Hydrastis*, average hydrastine content 3.3 per cent. *Hyoscyamus*, average alkaloid 0.075 per cent. *Lupulin*, ash-limit should be raised to 18 per cent. with ether-soluble material at 65 or 66 per cent. *Methylene-blue*, ash-limit should be raised to 1 per cent. *Myrrh*, ash-yield average 11 per cent. *Nux vomica*, average 1.42 per cent. strychnine. *Phenol*, 96 to 98.4 per cent. absolute phenol. *Phenyl salicylate*, m.p. 40.5° to 43° C. *Pilocarpine hydrochloride*, m.p. 194° C. to 199° C.; *nitrate*, 167° C. to 172° C. *Piperine*, m.p. 128° C. to 129° C. *Resorcinol*, m.p. 108° C. to 110° C. *Salicin*, m.p. 196.5° C. to 198° C. *Santonin*, m.p. 169° C. to 171° C. *Trional*, m.p. 75° C. to 77° C. *Terpin hydrate*, m.p. 115° C. to 117° C. *Vanillin*, m.p. 80° C. to 80.5° C.

Microscopical Examination of Belladonna Extract.

Mr. E. N. Gathercoal finds that belladonna and scopola extracts can be distinguished microscopically from characteristic vegetable-tissue present. The method of preparing the slides was given, and the identification-tests of the tracheal tissues which are the chief means of distinguishing between scopola and belladonna roots. The amount of fixed oil in commercial extract of belladonna-root is greater than in scopola-root.

Methyl Alcohol in Ethyl Alcohol.

Messrs. H. Engelhardt and H. W. Jones reviewed the various processes for the identification of methyl alcohol in ethyl alcohol, grouping these as follows: (1) Identification by reactions of a substance usually accompanying methyl alcohol (*i.e.* acetone); (2) complete oxidation by chromic acid or other oxidising agents; (3) oxidation to formaldehyde by red-hot copper or platinum spirals; (4) partial oxidation by chromic acid or potassium permanganate. The first method is untrustworthy, as methyl alcohol can now be obtained free from impurities. The authors prefer the last method, in which oxidation is carried out in acid medium with potassium permanganate, bichromate, or ammonium persulphate, Hinkel's process with ammonium persulphate being especially mentioned. The process is as follows: Add to 1 c.c. of the mixture to be examined, 0.8 gram of ammonium persulphate and 3 c.c. of dilute sulphuric acid (1 to 5), then make up to 20 c.c. with water, and distil over five portions of 2 c.c. each. The first two, containing acetaldehyde, are rejected, and the remaining three are tested for methyl alcohol by adding to the liquid a few drops of ½-per-cent. morphine-hydrochloride solution, and underlaying the mixture with concentrated sulphuric acid. A violet zone is produced if methyl alcohol is present.

Constituents of Gelsemium.

Mr. L. E. Sayre continues his work on gelsemium (*C. & D.*, September 26, 1908, p. 521), the alkaloid gelsemine being further studied. This he found to consist of at least two distinct bodies having different solubilities and different reactions with reagents. The paper also included a preliminary report on the physiological study of gelsemium alkaloids by Professor H. W. Emerson. For the assay of gelsemium preparations, Mr. Sayre has abandoned the Webster process in favour of less elaborate methods.

Strychnine Arsenate.

Mr. W. A. Puckner and Mr. L. E. Warren, working in the Chemical Laboratory of the American Medical Association with a view to establishing standards for unofficial substances used in medicine, examined four commercial samples of strychnine arsenate. Three were found to conform in a general way to the formula generally assigned to strychnine arsenate—viz., $C_{21}H_{22}N_2O_2.H_3AsO_4+\frac{1}{2}H_2O$—while the fourth conformed nearly to the formula, $C_{21}H_{22}N_2O_2.H_3AsO_4+1\frac{1}{2}H_2O$. The analytical data were given on the paper.

Copper Citrate.

Mr. W. A. Puckner and Mr. L. E. Warren found specimens to contain copper acetate and copper sulphate, and as a result of the authors' work pure copper citrate is now obtainable.

Abuse of Chemical Formulas.

Mr. W. A. Puckner pleaded with teachers to cease the use of chemical formulas in their lectures and writings, and to insist that their students do not use chemical symbols in a thoughtless, indiscriminate manner. The author, who is employed in the Chemical Laboratory of the American Medical Association, then referred to the use of chemical formulæ by proprietary-medicine manufacturers. A mixture of sodium sulphate and citrate with lithium is described as "sodio-trilithic anhydrosulphate," with the formula "$3Li_2O.NaO.SO_3.7HO$." A cancer-cure was described as "a new compound derived from a union of hydrocarbons" having the formula $C_{27}H_{15}O_2$. Pas-avena was stated to contain "somnalgesine," which was represented by the formula $C_{30}H_{33}N_3O_3$ (it was really a mixture of antipyrin and acetanilide). Other examples where chemical formulas are used to give "an air of respectability to a remedy" are germiletum, glycozone, and uron. The author also referred to "fake" synthetics represented as chemical combinations where they are really only mechanical mixtures.

Solution of Mercury Biniodide in Oil.

Mr. H. A. B. Dunning finds that mercury biniodide is the only mercurial salt which is satisfactory for dissolving in oil. Castor oil takes up 1 per cent. of mercuric iodide, other fixed oils, such as sesame oil, retaining 0.4 per cent. The author adopted the following formulæ:

1. Mercuric iodide 0.2 gram.	2. Mercuric iodide 0.5 gram.
Anæsthesine ... 0.1 gram.	Castor oil ... 18 c.c.
Sesame oil ... 50 grams.	Olive oil ... 32 c.c.

Finely powder the mercuric iodide and rub to a smooth paste with a portion of the oil, add the remainder of the menstruum, and heat the mixture on a hot-water bath till solution is effected. Preserve in sterilised bottles.

Preserving Volatile Oils.

Mr. Charles H. La Wall finds that the addition of from 5 to 10 per cent. of fixed oil to a volatile oil retards deterioration. The method has been tried with satisfactory results on the following oils: Lemon, lavender, orange, and peppermint. Olive oil was the fixed oil employed.

The Social Side.

The Association was officially welcomed by the Governor of Virginia and the Mayor of Richmond, the former giving a reception at his residence on the Friday evening. On Thursday afternoon and evening a picnic was held at Lake Side Park, which finished up with dancing.

Next year's President is Mr. E. G. Eberle, Dallas, Texas.

Proprietary Association of America.—The annual meeting was held at the Hôtel Astor, New York, on May 17, Mr. Frank J. Cheney, of Toledo, Ohio, the retiring President, in the chair. Among the delegates were Mr. David Watson (President) and Mr. L. S. Levee (Secretary) of P.A.T.A. Canada. Mr. James T. Wetherald, of Boston, Mass., extended a hearty welcome on behalf of the American Association to both these gentlemen, and referred in feeling terms to the death of King Edward VII., of whom he spoke with striking eloquence. At the conclusion of his speech the Chairman asked all the members to rise and to remain standing for two minutes as a mark of respect to the memory of the dead monarch. This was done, and the mute silence of the audience testified to the deep sympathy which is so universal throughout America for the dead King.

[Mr. Gerson, of the American Commerce Co., informs us that in journeying across the Continent he has been struck by the enormous number of flags that were at half-mast, and also by the large number of funeral services which were to be held on the day of the funeral. In many of the chemists' windows in Chicago and New York a picture of the dead monarch was shown draped.]

Uganda Lemongrass Oil.—In the course of a Colonial report on the Uganda Protectorate it is stated that a still for the preparation of lemongrass oil has been erected, and a small consignment shipped to London for sale.

Association Affairs.

Brief Records.

Society of Chemical Industry (Nottingham Section).—A meeting was held on May 18 at the University College, Mr. S. J. Pentecost in the chair. Mr. J. M. Wilkie, B.Sc., read two papers, entitled "The Rapid Analysis of Commercial Phosphates," and "The Determination of Phosphoric Acid by means of Standard Silver-nitrate Solution." The application of the method to commercial manures and fertilisers was the special point of the communications.

Dundee Chemists' Assistants and Apprentices Association.—The first meeting of the summer session was held on May 18, when the members visited the works of Messrs. G. & P. Barrie, aërated-water manufacturers. Mr. Barrie conducted the party, and explained the working of the machines which were in operation. On the motion of Mr. G. J. Lindsay a hearty vote of thanks was accorded to Mr. Barrie. The annual picnic of the members will be to Monikie on June 15, brakes leaving High School Gate at 2.30 P.M. Tickets, 3*s.* each, can be had from the Secretary or members of the committee.

Halifax Chemists' Association.—Messrs. J. W. Thompson (presiding), W. E. Smithies, W. R. Fielding, C. Fielding, J. E. Burns, L. Chambers, and P. W. Swire attended the monthly meeting on May 24. The Halifax Chamber of Trade informed the Association that there is strong feeling among the members that the present time is not opportune for adopting the suggestion of the Chemists' Association to keep the shops open on Good Friday. Mr. W. R. Fielding reported that he had been to the meeting of the Chamber of Trade that evening, and along with Mr. Black, as representing the chemists, he had been appointed on a deputation to attend before the Waterworks Committee to protest against recent additional water-charges imposed on shopkeepers. Mr. P. W. Swire reported upon the proposed joint proprietary article, but nothing definite was decided.

Forfarshire Chemists' Association.—The annual dinner was held in the Royal British Hotel, Dundee, on Wednesday, May 25, Mr. John Anderson (President) in the chair. Others present were Mr. Charles Soutar (solicitor), Messrs. Charles Kerr, J.P., James Russell, John Gray, John Doig, William Doig, jun., Charles Cummings, Wm. Cummings, Wm. Moir, G. L. Lindsay, J. Ferrier, W. A. Ramsay, Dundee; J. H. Thomson and T. Peebles, Lochee; E. Fleming, Broughty Ferry; W. Walker, Downfield; A. Chalmers, Newport; J. S. Whyte, Arbroath; and a number of ladies. After dinner the Chairman proposed the toast of "The King," and Mr. Thomson proposed that of "The Pharmaceutical Society." Mr. Soutar (solicitor) proposed the toast of "The Association." He said he held a great respect for pharmacists, and at one time had hoped to be one of them. He was impressed with the word "Pharmaceutical," and could imagine it might prove rather a stumbling-block to after-dinner speakers of the good old times. After the dinner proceedings the company sailed across the Tay to Newport, where carriages were in waiting for a circular drive by Tayport, St. Michael's, and Wormit to Newport Pier. On returning to the city, tea was partaken of in the hotel. Before separating, Mr. Whyte (Arbroath) proposed a vote of thanks to the local committee for the excellent outing they had enjoyed. He regretted so few representatives of the county were present, as the proceedings had been most enjoyable and the weather brilliant.

Leeds Chemists' Association.—The annual general meeting was held at the Grand Restaurant on Wednesday evening, May 25, Mr. F. Pilkington Sargeant presiding. The Hon. Secretary (Mr. J. R. Bentley) presented the annual report, which showed that members number eighty-five and associates fifteen. The report was adopted upon the motion of Mr. Milestone, seconded by Mr. Shaw. The Hon. Treasurer (Mr. Horner) reported that the adverse balance of last year had been wiped out, and a small balance was left in hand. This report was adopted on the motion of Mr. Jones, seconded by Mr. Riley.—Some discussion then took place upon the purchase of syphons, and it was stated that posters were being displayed in Leeds stating that people could get 2*d.* for each empty syphon and ½*d.* for each mineral-water bottle by taking them to the nearest dealer. It was pointed out that special brands which were sold to chemists alone might be returned to other shopkeepers, and the chemist would be involved in some loss. It was decided, upon the motion of Mr. Calverley, that the mineral-water firms concerned should be written to drawing attention to the posters, and asking them if they could do anything in the matter. It was also decided to ask the firms to come into line with other large firms in regard to the charges for syphons. A vote of thanks was accorded to the Librarian and the Auditors for their services during the past year. The election of officers resulted as follows: President, Mr. J. H. Beacock; Vice-Presidents, Messrs. F. Pilkington Sargeant and J. R. Bentley; Hon. Treasurer, Mr. S. R. Mundell; Hon. Secretary, Mr. C. H. Milburn; Auditor, Mr. Feamley; Council, Messrs. Calverley, Haw, Horner, Heaton, Milestone, Shaw, Long, Riley, and Armitage.

Optical Federation.—An adjourned conference of representatives of optical societies was held at the Albion Hotel, Manchester, on May 17, Mr. J. C. Kidd (President of the Manchester and North of England Optical Society) in the chair. The delegates were occupied the whole of the day drafting rules and dealing with suggestions to be embodied in the constitution. It was unanimously agreed that the title should be "The National Federation of Ophthalmic Opticians," with headquarters in Manchester for the present; a Council of twelve, four of whom will retire annually; a conference each year in a town to be chosen twelve months ahead; a minimum fee of 15*s.* per annum from each affiliated society per thirty members, and over that number *pro rata*; individual members of affiliated societies to pay 1*s.* annually to the Federation funds; unattached members to be eligible on payment of 2*s.* 6*d.* per annum. It was decided that the programme of the Federation should include the unification of examination-schemes; to secure or assist to secure optical legislation; the adoption of a uniform minimum price-list; establishment of optical classes at all technical institutions in the country, according to the most advanced syllabuses for optical examinations; formation of a defence fund; the question of favouritism in dealing with prescriptions by publicly supported ophthalmic institutions; opticians and school boards in the matter of systematic testing, and especially in regard to unfair statements on advice cards dealing with children's sight; wholesale retailing, advertising ethics, etc. The following officers were elected *pro tem.*: President, Mr. J. C. Kidd, Manchester; Vice-President, Mr. E. Beaumont, Lindley, Yorks; Hon. Secretary and Treasurer, Mr. Alf. Herschberg, Manchester; Council, the delegates representing the different affiliated societies.

Bradford Chemists' Association.—The annual meeting was held at the Royal Hotel on Tuesday evening, May 24, Mr. John Gordon (President) in the chair. The annual report dealt with the session's work, and stated that the membership is sixty-four, a decrease of four. The financial statement showed a balance in hand of about 9*l.* Both reports were adopted. After correspondence had been considered, Mr. A. Hanson (Queensbury) was appointed delegate to the B.P.C. meeting at Cambridge. The election of officers resulted as follows: President, Mr. Marmaduke Firth; Senior Vice-President, Mr. F. K. Taylor; Junior Vice-President, Mr. F. A. Wilcock; Secretary, Mr. R. T. Silson; Treasurer, Mr. J. Holmes; and members of the Executive Council, Messrs. John Gordon, A. Hanson, and W. H. Smithies. It was decided, upon the motion of Mr. Holmes, seconded by Mr. Wilcock, that one of the rules of the Association which related to membership should be so altered as to make it possible for all registered chemists and druggists to be eligible for full membership. Attention was drawn to the fact that mineral-water manufacturers in the city were advising the public to take their empty syphons and mineral-water bottles to the nearest dealer, where they would get 2*d.* per syphon and ½*d.* per bottle. Mr. Gordon said he thought it would be well for all chemists to impress upon their customers that syphons were the property of the seller, and should be returned when empty. The President said he thought a printed label ought to be put on each syphon bearing the name of the seller, but after a little discussion it was decided that no action should be taken. The representatives of the Association on the Bradford Chamber of Trade (Mr. W. K. Jackson on the Council, and Messrs. R. T. Silson and J. Holmes as delegates to the quarterly meetings) were re-elected.

Nottingham Pharmacists' Association.—The annual meeting was held at Calvert's Café on Wednesday evening, May 25, Mr. R. Fitzhugh, J.P., presiding. The large attendance included Messrs. C. A. Bolton, A. Middleton, F. R. Sergeant, A. Eberlin, D. Ellis, S. Royce, A. E. Beilby, W. Gill, C. F. Carr, H. Plattin, W. Meakin, T. Wilson, H. P. Middleton, H. C. Prince, J. Smith, Brown, and Messrs. T. Freeman and E. E. H. Turton (Secretaries). Before beginning the business of the evening, Mr. Fitzhugh thanked all the members for their sympathy with him during his long absence through illness. He added "I assure you that I have not forgotten the Chemists' Association, because I always look back upon the many pleasant meetings which I have had with you, and I hope to look forward to many more in the future." The Secretaries' report was then submitted. It referred to the efforts made to prevent the issue of poison-licences and to the general work of the session. The membership of the Association is steadily growing, being

at present seventy-one, consisting of two honorary, sixty-two members, and seven associates. Mr. Gill, in moving the adoption of the report, expressed the hope that the attendance at the scientific meetings would be better in the future. Mr. Sergeant seconded, and the motion was carried. Mr. Middleton presented the Treasurer's report, which showed receipts 36*l.* 15*s.* and expenses 28*l.* 17*s.* 3*d.*, leaving a balance in hand of 7*l.* 17*s.* 9*d.* On the motion of Mr. Royce, seconded by Mr. Wilson, the report was adopted. The following new members were elected: Messrs. H. Wilford, E. E. Dickenson, E. Darley, W. E. Lander, and C. H. Robinson, and Mr. G. W. Mackintosh an associate member. The election of officers resulted as follows: President, Mr. R. Fitzhugh, J.P. (re-elected); Vice-President, Mr. F. R. Sergeant; Treasurer, Mr. A. Middleton (re-elected); Secretaries, Messrs. T. Freeman and E. E. H. Turton; Committee, Messrs. A. E. Beilby, C. F. Carr, A. Eberlin, D. Ellis, W. Gill, W. Meakin, S. H. Plattin, and T. Wilson.

Western Pharmacists' Association.—The annual meeting was held at the Restaurant Frascati, Oxford Street, London, W., on May 25. The President (Mr. J. T. Barrett) was in the chair, and among those present were Messrs. Bartlett, W. Browne, W. F. Gulliver, E. T. Neathercoat, J. Langford Moore, C. A. Noble, H. R. Proctor, R. Robins, N. H. Schollar, J. Smith, R. L. Whigham, E. White, R. Wilde, W. J. U. Woolcock, and C. T. Allen (Hon. Secretary). The Chairman having referred eloquently to the death of King Edward, a vote of condolence with the Queen-Mother and the Royal Family was passed in silence. The Chairman next congratulated Mr. Edmund White upon his re-election to the Pharmaceutical Council, and upon the high position he occupied in the poll. Mr. White, in replying, thanked the Association for the aid which it had accorded him. He also referred to the shortage of Londoners upon the Council, and hoped that a member of the Association would be prevailed upon to stand for election next year. Mr. Gulliver (Hon. Treasurer) presented a statement showing a credit balance of 7*l.* 7*s.* 2*d.* and a total balance in hand of 28*l.* 16*s.* 11*d.* Subscriptions (142) brought in 35*l.* 10*s.* The report was adopted, and 5*l.* 5*s.* was voted to the Pharmaceutical Benevolent Fund. The Chairman intimated the desire of Dr. W. Harrison Martindale and Mr. W. J. I. Philp to retire from the committee. It was decided to accept the resignations and to forward to them the thanks of the Association for their past services. There were only two new nominees, so that the committee was declared elected as follows: Messrs. H. R. Proctor, W. F. Gulliver, R. L. Whigham, W. Browne, A. R. Melhuish, E. White, C. T. Allen, J. T. Barrett, F. W. Gamble, and E. F. Strickland, the two last-named being the new members. Mr. R. D. Dixon was elected an honorary member in recognition of his services in getting new members for the Association. Three new members were proposed, bringing the total membership (if approved) to 158. Mr. Proctor then gave details of the full-day river-trip to be held in conjunction with the Thames Valley and Croydon Associations. Alterations in the rules allowing a further member to be added to the committee, an additional Honorary Secretary, and the retiral of only one-third of the members of the committee each year were agreed to. The President, in his valedictory address, reviewed the session's work, in which he drew attention to the conspicuous success of the annual dinner, the enhanced social nature of which was due to the wholesale houses not being solicited to attend and the presence of many medical friends. A vote of thanks was accorded to the Hon. Secretary for his "indefatigable efforts" during the year, and another to the Hon. Treasurer. The meeting terminated with a vote of thanks to the President.

Chemists' Defence Association, Ltd.

The directors, in their ninth annual report covering 1909-10, state that 105 new members joined during the year, making the number of members on May 13, 3,758. They set forth the subjects on which the Association's solicitors have given free legal advice to the members, and state that during the year claims for damages to the amount of 424*l.* 15*s.* 11*d.* have been paid. These damages were in regard to the following mishaps:

Wrong labelling of medicines (several cases).
Dispensing of atropine instead of morphine.
Sale of corrosive sublimate labelled nitrate of potassium.
Dispensing mixture in which bottle was filled with carbolic acid instead of water.
Sale of oil of eucalyptus in mistake for ammoniated tincture of quinine.
Sale of wrong size of catheter.
Sale of ammonia in place of spirit of camphor.
Dispensing atropine eye-drops too strong.
Alleged sale of butyr of antimony instead of friar's balsam.

Six cases under the Sale of Food and Drugs Acts against members were defended. In two of these the summonses were dismissed, in one no fine was inflicted, but costs had to be paid, and in others small fines and costs were imposed. The report states that in every instance the defence was able to prove conclusively that no fraud had been committed upon the public. The directors recommend that the reserve fund should be increased from 2,000*l.* to 5,000*l.*; in fact, the Association already has 2,500*l.* invested in 3 per cent. Local Loans and 500*l.* in 3½ per cent. India Stock. The income and expenditure account for the year which ended December 31, 1909, shows an income of 1,979*l.* 11*s.* 5*d.*, of which 1,844*l.* 17*s.* was derived from subscriptions, 57*l.* 10*s.* from insurance companies, 67*l.* 18*s.* 9*d.* from investments, and 9*l.* 3*s.* 8*d.* interest on deposit. The chief items of expenditure besides the claims above referred to were: Salaries, 267*l.* 6*s.* 10*d.*; the "Anti-Cutting Record," 220*l.* 7*s.*; legal charges, 80*l.* 18*s.* 10*d.*; travelling expenses, 64*l.* 19*s.* 3*d.*; directors' fees, 35*l.* 14*s.*; directors' fares, 29*l.* 6*s.* 9*d.*; and other items (chiefly connected with the office) make up a total expenditure of 1,353*l.* 17*s.* 8*d.*, showing a balance of 625*l.* 13*s.* 9*d.* of income over expenditure. The annual meeting is to be held in July.

Drug-trade Appeal Fund.

The annual meeting of the subscribers of this fund was held at St. Bride Institute, Ludgate Circus, London, E.C., on May 26. Mr. Chas. Umney occupied the chair, and there were also present Mr. C. J. G. Bunker, Mr. J. G. Atkinson, Mr. G. J. Knight, Mr. L. O. Johnson, Mr. F. Truman, and Mr. G. P. Pond.

Annual Report and Accounts.—The Secretary (Mr. W. Johnston) then read the report of the trustees. Reference was made to the Edwards' appeal case, defended by the fund, and it is stated

The trustees feel that whilst very many of the subscribers will be satisfied with the judgment delivered by the Lord Chief Justice and Justices Bray and Pickford to the effect that the trade name of a firm trading as chemists is sufficient under the Pharmacy Acts to appear on poison labels (provided the other formalities of the Act are observed), even those who may think otherwise will approve the action of the trustees in taking steps to have this vexed question finally settled. At the time of making this report the accounts in the above have not yet been received from the solicitors, consequently they will have to appear in the statement for next financial year. By arrangement between the appellant and respondents each side paid its own expenses.

The report also refers to the death of Mr. A. C. Wootton and the co-option of Mr. C. J. G. Bunker.

The accounts show an income of 17*l.* 6*s.* 9*d.*, and the sum of 11*l.* 4*s.* 2*d.* taken to the balance-sheet, which shows that the fund now consists of stock and cash amounting to 728*l.* 1*s.* 3*d.*

The report was adopted on the proposition of Mr. Pond, seconded by Mr. Knight. The Secretary mentioned that since the accounts for the year were made up the solicitor's bill had been received—the amount was considered very moderate.

The Trustees were then re-elected, and votes of thanks were accorded them for their services, and to the Chairman for presiding at the meeting.

Peppermint Oil.—A new variety of oil distilled in Syria is at present being placed on the market (Hænsel's "Berichte"). It has a very good odour. It was found to possess the following constants: Sp. gr. (15° C.) 0.9130, ester number 22.25, and acetylation number 151.5.

Agar-agar is becoming increasingly used as a preventive of constipation. It is taken with food or as a food, and it acts by retaining moisture in the fæces, so ensuring soft and large motions. It is occasionally combined with purgatives until a healthy condition of the bowel is promoted, then the purgative may be dropped.

Urotropin in Wine.—When wine has been treated with sulphurous acid, excess of sulphur is removed by aëration or by chemical means. The chemical methods consist in the addition of sodium binoxide, potassium permanganate or urotropin. The French Minister of Agriculture has warned the Directors of the Government Laboratories that urotropin is being employed, and has given an assay test with roseaniline bisulphite.

Practical Notes and Formulae.

Acid-resisting Cement.

Asbestos	... 1 part
Sand	... 1 part
Silicate of soda (30° B.) ...	... 6 to 8 parts

The mass becomes hard when exposed to the air, and resists both heat and acids.

Explosive Liniments.

MM. Lyonnet and Boulud ("Lyon Médical") state that under certain conditions mixture of equal parts of tincture of iodine and turpentine and tincture of iodine and ammonia are explosive. These liniments should not be left in bottles badly corked or be placed in a warm place.

Resinous Tinctures.

In preparing tincture of benzoin trouble is often experienced through the resin adhering firmly to the bottom of the vessel and resisting for some time efforts to effectively shake up the tincture. M. A. Lespinasse ("L'Union Pharmaceutique") advocates mixing the benzoin with an equal quantity of clean coarse sand. The tincture can be made in much less time. The same method can be used for tinctures of tolu and aloes.

Sterilising Catgut.

A new method of sterilising catgut for surgeons' use is outlined in the "Journal de Pharmacie de Liège." It consists of introducing the catgut into a tube of sterilised vaseline and placing the tube in a saturated solution of common salt or borax with a boiling-point of 104° C. The tube is kept in the boiling liquid for an hour, the process being repeated on the two following days. The catgut is now sterilised and is preserved in the same tube. When the catgut is required for use the vaseline is gently melted and poured away, and the catgut wiped with antiseptic gauze.

Aromatic Chocolate Elixir.

Professor Wilbur L. Scoville recommends the addition of the following formulæ in the "National Formulary":

	A	B
Chocolate	50 grams	50 grams
Sugar	250 grams	250 grams
Alcohol	125 c.c.	125 c.c.
Tinct. vanillin co.... ...	10 c.c.	10 c.c.
Oil of orange	1.0 c.c.	0.25 c.c.
Oil of peppermint	—	0.15 c.c.
Oil of anise...	0.05 c.c.	0.012 c.c.
Oil of coriander	0.05 c.c.	0.012 c.c.
Oil of caraway	0.05 c.c.	0.012 c.c.
Oil of cinnamon	0.05 c.c.	0.012 c.c.
Coumarin	0.03 grams	0.008 grams
Water to make	1000.00 c.c.	1000.000 c.c.

Mix the chocolate and sugar, add 700 c.c. of water and boil five minutes. Allow the solution to become cold, then strain, and pass enough water through the strainer to make 760 c.c. Dissolve the oils, cumarin, and tincture in the alcohol, add to the chocolate mixture, and make up to 1,000 c.c. Filter through a little magnesium carbonate.

—*Bulletin of Pharmacy.*

Estimation of Mercuric Iodide in its Ointment.

M. Paul Adam ("Journ. de Pharm.," xxx. 7, p. 300) recommends benzine for dissolving the fatty matter in analysing iodide-of-mercury ointment, as it dissolves the fat and the smallest amount of mercuric iodide. From 2 to 3 grams of the ointment is macerated in the cold in a flask, using only sufficient benzine to enable the mercury salt to separate. The solvent is decanted off, and the residue washed several times by decantation, and finally on a filter, until the washings leave no fatty films on evaporation. The residue, dried in the cold over sulphuric acid, is weighed. The mercury-content is verified by dissolving the residue in potassium-iodide solution and precipitating and weighing as mercuric sulphide. The decanted benzine solutions, with the added washings, are shaken out with potassium-iodide solution, and the mercury precipitated and weighed as sulphide. In an experiment 0.348 gram of mercuric iodide remained insoluble and 0.0195 gram passed into solution.

A Pure Foods Exhibition

is being held at the Royal Horticultural Hall, Westminster, London, S.W., this week. It is stated in the catalogue "that the first Pure Food Exhibition will be another step towards what must come—viz., a new Food and Drug Act, and a compulsory contents label being affixed to all food packages." To further this object there is an exhibit in the main hall of "food adulterations, sophistications, substitutions, and fakements." A desire to make the display a gastronomical chamber of horrors has resulted in the inclusion of the crude sophistications of bygone days. Yellow ochre is no longer used to give the desirable colour to "piccalilli," nor is annatto mostly made up of "starch, red earth, ochre, sulphate of lime, etc." Powdered dried liver and roasted chestnuts, said to be used in faking coffee, enter the public analysts' museum along with the exhausted tea-leaves faced with plumbago, prussian blue, and magnetic oxide of iron. An inspector scarcely ever meets with vinegar containing sulphuric acid, nor is this vitriolic liquid added to gin to make it "bite." Grains of paradise are not opium seeds, but a harmless flavouring agent, and cocculus indicus, if used by brewers, would result in the brewery being shut up. Other examples of the archaic character of this part of the exhibition could be given, but enough has been said to show that it is not worthy the publicity which it has obtained in the daily press. The trade exhibits comfortably fill the hall, and among them the farinaceous products, especially whole-meal foods, occupy most space, while jams follow, then coffee, coffee extracts, and coffee substitutes. We subjoin notes on the more interesting displays.

Menley & James, Ltd., give demonstrations in invalid cookery, and hand round preparations containing their vegetable proteid food—Glidine. The Frame Food Co., Ltd., have a noticeable exhibit of their specialities. The Manhu Food Co., Ltd., exhibit their cereal foods and diabetic preparations. The British Diamalt Co. have a neat display of their highly diastatic malt extract. Edme, Ltd., also show malt extract and other "Edme" specialities. Lime-juice, menapia champagne and burgundy comprise the exhibit of J. A. Cullimore's Pure Fruit Juice Co. & International Wine Association. Chivers & Sons specialise in Cambridge lemonade, which is among the variety of goods they exhibit. Henri Etienne Boulle (Marseilles) is showing pure olive oil which is attractively packed in bottles (enclosed in handsome stout cartons) and tins. The Pure Water Co., Ltd., are exploiting "Sparkling Puralis" and other aërated waters. Dr. J. Cappellano & Co. exhibit grape jelly and its medicinal combinations, and old Barola with Quinquina, a cinchona wine.

Curry condiments appear to be again growing in favour. The "Kroomda" Co. show a variety of curry and chutney preparations, including prawn curry and chicken curry. Senier & Co. devote their stand to "Chuto," an Indian condiment; while K. Atkinson is also showing chutney and curry powder solely. Soured milk naturally finds a place. "Saurlac" with stewed fruit is calculated to please the visitor at the stand of the London, Gloucestershire, and North Hants Dairy Co. Koumiss, as well as soured milk, is displayed by the Belgravia Dairy Co., Ltd. Sterilised milk is, however, given first place rather than lactic milk by the Alliance Dairy Co., Ltd.

The State of San Paulo has a big display of "Fazenda" coffee, which is packed in lever-lid hermetically-sealed canisters. Wallace "P.R." Foods Co. are showing electrically-roasted coffee. Lewis Russell & Co. claim that the caffeine in their "Sto-mike" Digestive Coffee is converted into a beneficial constituent. Coffee extracts are exhibited by Clark's Optimus Coffee Extract, Ltd. The Coffeetine Co., Ltd., give out samples of their herbal substitute for coffee. Baking- and egg-powders, custard-powders, and jelly-crystals are included among the milled products of J. & T. H. Wallis, Ltd. "Flakna" Specialities Co. show their custard-powder, baking-powder, jelly-crystals, and culinary herbs, etc.; while the Eglat Co. display their creamy table sweet. Wm. Hill is exhibiting "Petrol" household ammonia in generous-sized bottles with swing stoppers.

Artificial Egg-yolk.—Some samples of dried egg-yolk examined by MM. Bourdas and Touplain ("Journal de Pharm. et de Chim.") have been found to contain casein and to be coloured with coal-tar dyes. The fraud is detected by heating a little of the sample in a tube, when the characteristic odour of burnt milk is obtained.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

(*From the "Trade-marks Journal," May 18, 1910.*)

"PERBORIN," and label device; for chemicals (2). By Prescott & Co., 63 Corporation Street, Manchester. 322,098.

"UNICAR"; for calcium carbide (1). By Carbide Trading Co., Ltd., 276 Winchester House, Old Broad Street, London, E.C. 322,463.

"ZIP"; for a sheep-dip (2). By A. J. Richardson, 14 Birch Road, Oxton, Birkenhead. 320,496.

"ELEKSA"; for a veterinary ointment (2). By J. S. Reed, 9 Westwell Street, Plymouth. 322,220.

"PONDUS"; for chemicals (2). By F. W. Berk & Co., Ltd., 1 Fenchurch Avenue, London, E.C. 322,331.

"LILY BALM," and lily-of-the-valley device; for a medicinal lotion (3). By J. Laurie, 2 Lytham Road, Blackpool. 321,277.

"WATKINSON'S COUGH AND BRONCHITIS MIXTURE," and label device; for a medicine (3). By W. F. Livesey, 145 Marsh Lane, Preston. 318,555.

Device of letters, "VERNAS C. Co."; for gum, mouth, and throat lotions (3). By Vernas Chemical Co., 45 West 34th Street, New York. 322,260.

"TINORI"; for medicinal chemicals (3). By E. MacSweeny, 91 Patrick Street, Cork. 322,716.

"SYLVAX"; for photographic paper and cards (39). By H. S. Pearmund, 47 High Street, Tunbridge Wells. 321,836.

"LACTOLETTES"; for lactic-acid chocolate creams (42). By H. J. Dorée, 104 Newgate Street, London, E.C. 322,020.

"SANAQUA"; for mineral and aërated waters (44). By Cater, Stoffell & Fortt, Ltd., 26 High Street, Bath. 322,731.

Picture of jacket; for a fabric-cleaning preparation (47). By W. Fowler, 9 G. Quarters, The Barracks, Canterbury. 322,357.

"LAUNMALT"; for laundry-preparations (47). By E. Fison, Ltd., Bridge Street, Ipswich. 322,411.

"FIBROL"; for oils and greases (47). By Stern, Sonneborn Oil Co., Ltd., 16 Finsbury Square, London, E.C. 322,465.

West Indian Drinks.

An edifying volume waits to be written on the beverages of the West Indies, says "The Times." It would have a pleasantly soothing preface devoted to the milk or "water" of green cocoa-nuts and the beauties of the ubiquitous lime-squash. A more heartening chapter would follow on Jamaica and its "pimento dram," with a discursion on the cultivation of allspice; and thence transition would be easy to the next chapter, also sufficiently invigorating, which would deal with that other Jamaican institution known as Planter's Punch, and the relationship thereto of the etherealised medicament known as Milk Punch, which is the pride of the Georgetown Club in Demerara. Most of the rest of the book would be devoted to Swizzles. A Swizzle is the West Indian counterpart of the American cocktail; often, indeed, made of the same ingredients, but "swizzled," which is to say beaten, as with an egg-beater, into a froth. The original and only right implement to be employed in this operation is the stem of a plant on which Nature has agreeably ordained that there shall grow radiating roots, apparently, as has been remarked by other writers, especially arranged for the purpose of swizzling. So great has been the consumption of the roots, however, that now an artificial "swizzle stick" is generally employed, of an ingenious pattern which reflects no small credit on its inventor. In this portion of the book the most important chapter would be devoted to the Green Swizzle (commonly known only as a "Green"), indigenous to the Bridgetown Club in Barbadoes, with a dissertation on the virtues, therapeutic and otherwise, of Falernum, a vermouth-like liquor, the basis of which is wormwood, which enters largely into the composition of the Green. Next to the Green, the Red would demand a chapter to itself, with an explanation of the points wherein it differs from and excels a Manhattan cocktail; while, among the miscellaneous Swizzles to be met with in the islands, one which would require special analysis is that which Antiguans have invented for the destruction of their friends, which contains a teaspoonful or so of *Crème de Cacao*. It is a theme which would require some subtlety of treatment. An appendix could be devoted to Angostura Bitters, the seat of manufacture of which is now in Trinidad; while the Barbadian "Blister"—— But the Blister, perhaps, had better only be mentioned in a small-type footnote on some inconspicuous page.

Patent Specifications.

Printed copies of the following specifications are on sale (8d. each) at the Patent Office, 25 Southampton Buildings, London, W.C., a fortnight after the notice of acceptance has appeared in the "Official Journal" (Patents) of the given dates. Persons desirous of opposing the grant of a patent must do so in the prescribed form within two months from the date of the "Journal" in which the notice appeared.

Specifications Accepted.

May 4, 1910.

HAIR LOTION. 10,034/09. Stubbs & West.
ARTIFICIAL DENTURES. 10,104/09. Clifford.
WATER-SOFTENING APPARATUS. 10,293/09. Paterson.
SPECIFIC GRAVITY APPARATUS. 11,099/09. Macdougald.
CHOLERA AND DIARRHŒA CURE. 11,980/09. Pearson.
BUNSEN BURNERS. 12,714/09. Birch, Dudley & Doxey.
STOPPERING BOTTLES. 17,589/09. Rose.
ELECTROLYTIC PRODUCTION OF SALT SOLUTIONS. 20,192/09.
ALKALINE SALTS OF ACETYL-SALICYLIC ACID. 29,439/09. Richter.
ENEMA SYRINGES. 723/10. Stock.

May 11, 1910.

CHLORINE-RESISTING EBONITE. 12,424/09. Wildermann.
DUST-PREVENTING LIQUID. 12,779/09. Ryan.
COMPOUND FOR NEUTRALISING BLASTING FUMES. 12,988/09.
BED-PANS. 17,366/09. Grimwade.
DESTROYING TOXIC CONSTITUENTS OF COFFEE-BEANS. 20,215/10. Evers.
SURGICAL BANDAGE APPARATUS. 23 847/09. Sebode.
CURATIVE AGENT FROM ANIMALS' SPLEEN. 27,357/09. Chemische Fabrik auf Actien (Vorm. E. Schering).
ANHYDROUS CAUSTIC POTASH. 29,494/09. Chemische Fabrik Grieshiem Elektron.
FLY-CATCHER. 7,850/10. Kaiser.

May 19, 1910.

MASSAGE APPARATUS. 10,786/09. Johansen.
SULPHURIC ACID APPARATUS. 11,128/09. Moritz.
PRODUCTION OF NITRATES. 11,274/09. Johnson (Badische Anilin und Soda Fabrik).
WATERPROOFING COMPOSITION. 11,340/09. Hart.
DECOLOURISING GLYCERIN. 16,260/09. Johnson (Badische Anilin und Soda Fabrik).
MANUFACTURE OF SODIUM SULPHATE, HYDROGEN, AND IRON OXIDE. 19,920/09. Carulla.
DEPILATORY TOILET PREPARATION. 26,822/09. Liitje.
SHEEP-DIP AND DISINFECTANT. 27,006/09. Little.
RUBBER CAPS FOR CRUTCHES, ETC. 26,323/09. Cairns.
PURIFYING BARIUM CARBONATE. 30,339/09. Soc. Pour L'Utilisation de l'Air et de Ses Dérivés.
TELESCOPE LENS SYSTEM. 2,340/10. Zeiss.

May 25, 1910.

TRUSSES 11,434/09. Offord.
CARBURETTED-AIR MANUFACTURE. 21,375/09. Genteur.
MANUFACTURE OF FERRIC OXIDE. 21,834/09. Gill.
STOPPERING-CAPS FOR BOTTLES. 26,724/10. Crown Cork Co.
PRODUCING LECITHINE IN MILK, ETC. 1,744/10. Witte.
MANUFACTURE OF OXALATES. 8,093/10. Ges. für Chemische Industrie in Basel.

Specifications Open to Public before Acceptance.

THERMOMETERS. 9,350 and 11,798/10. Fournier.
FERTILISERS. 9,258, 9,261, 9,275, and 9,279/10. Coates.
APPARATUS FOR MEASURING POWDERS. 9,354/10.
DEVELOPMENT OF OXYGEN. 10,065/10. Sarason.
ELECTROLYTIC PRODUCTION OF SODIUM. 6,063/10. Soc. D'Electro-Chimie & Hulin.
CONVERTING PINENE INTO CAMPHENE. 10,227/10. British and Continental Camphor Co.
CONVERTING CALCIUM CYANAMIDE INTO NITRATE OF LIME. 10,815/10. Collett & Eckhardt.
SPREADING SHAVING-SOAP ON THE SKIN. 10,825/10. Pelzer.
PERMANENT RADIO-ACTIVE PRODUCTS. 14,960/09. Farjas.
SOLID HYDROCARBON SOAP. 23,013/09. Bohme & Wolf.
ELECTROLYTIC PRODUCTION OF SODIUM. 11,175/10. Seward, von Kügelgen & von Bidder.

Trade Report and Market Review.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are obtained for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at these prices.

42 Cannon Street, London, E.C., May 26.

BUSINESS in drugs and chemicals has assumed a more normal aspect this week, but it cannot be denied that he recent disturbance of its continuity has not yet worn f. The price movements recorded are mostly downwards, nd include a decline in quicksilver and mercurials. Both astor oil and turpentine are lower. Among articles which e firm we include balsam Peru, agar-agar, buchu, inea-grains, and jalap. Shellac is moving upwards on peculative buying. The outlook for both the new opium nd otto of rose crops remains good. Matto Grosso ipecuanha has been in improved demand at unaltered rates. opper sulphate is easier. Cod-liver oil is extremely quiet, ith an irregular Finmarken catch. Thymol and vermilion e lower. At the spice auction ginger, nutmegs, and mace ere steady. China crude camphor is somewhat scarce on ot. Indiarubber is flat and lower. The principal changes ave been as under :

Higher	Firmer	Easier	Lower
ellac	Camphor China, (crude) Cinchona (at auction) Jalap	Caraway-seed Copper sulphate Isinglass Linseed oil Pepper	Castor oil Indiarubber Mercurials Opium Quicksilver Thymol Turpentine Vermilion

Cablegrams.

BERGEN, May 25.—Stormy weather still prevails in the nmarken district, which has prevented cod-fishing. The arket for finest non-congealing Lofoten oil is extremely iet at 103*s.* 6*d.* per barrel, c.i.f. terms.

NEW YORK, May 19.—Business in drugs is fair. Opium dull at $6 per lb. for druggists' by single cases. Jalap is dearer at 28c. per lb. Cascara sagrada is unchanged. ydrastis (golden seal) is firmer, but unaltered, at $2. ppermint oil is unchanged and steady at $1.90. Curaçao es is firm at 9c. Asafetida is nominal at $1. Copaiba lsam is quiet at 40c. for Central American. Balsam ru is firm at $1.65. [This cable appeared in our Coloured pplement last week.]

NEW YORK, May 26.—Business in drugs is fair. Opium lower at $5.95 per lb. for druggists' in case lots. Jalap firmer at 28c. Cartagena ipecacuanha is easy at $1.40 r lb. Copaiba balsam is also easy at 40c. Cascara grada is unchanged. Peppermint oil has declined to 85 for Wayne County in tins. Hydrastis (golden seal) firm at $2.

Manchester Chemical-market.

May 24.

There is little to report, owing to the holidays. In heavy emicals caustic soda is very firm, but bleaching-powder rather easier. In other respects there is no change. Sulate of copper has had a weaker tendency, but there is le change to note in prices. Arsenic and brown acetate lime are steady. In coal-tar products, sulphate of amnia is quoted 11*l.* 10*s.* to 11*l.* 11*s.* 3*d.* per ton free on rails anchester. Solvent naphtha rules higher at 1*s.* 4½*d.* to 5*d.* per gal. Benzols and carbolic acid are steady.

Continental Drug and Chemical Markets.

AGAR-AGAR is somewhat quieter, though the general tendency firm, as offers of new for delivery are scarce. It appears, wever, that "blank" sales have taken place for which a ficulty is experienced in covering. It is presumed that the quotation of from m.380 to m.400 will be maintained for some time.

CARNAUBA WAX.—Unaltered. Little has been sold, and the upward tendency is at a standstill, market closing firmly. As soon as consumers are again in the market an advance is expected, as higher quotations are already named from Brazil.

GLYCERIN.—The product of a new maker is being offered below convention prices. A change also appears to be imminent in convention circles, though in what sense is not known.

IPECACUANHA.—Owing to lack of demand prices have somewhat declined. Good Cartagena is offered at m.11.50, and Rio at m.20 to m.21 per kilo.

JALAP.—More interest has been shown recently in Hamburg, all the more so as the U.S.A. has come on the market as a large buyer. For good testing m.3 per kilo. has been paid. The stocks in first-hand are being maintained at an excess value, and the quotations are m.3.50 and m.3.75. Second-hands offer at slightly less, but consumers are recommended to cover early.

ORRIS.—The last crop of Florentine was small, and the first business done in the autumn of 1909 introduced higher rates. There is now a renewed demand from consumers, and the absence of considerable stocks has induced higher quotations, which are between m.90 and m.100 per 100 kilos.

POTASH CHLORATE.—There has been a large demand, and it is reported that several makers are sold out for the remainder of the year. Supplies in second-hands are of little use for wholesale consumers. In the circumstances a continuance of present prices is anticipated, but not an advance, as the convention does not appear to contemplate such a step.

London Markets.

ACID, CITRIC, is firm at 1*s.* 4½*d.* for English and 1*s.* 4¼*d.* to 1*s.* 4½*d.* for foreign. English makers still continue to abstain from offering, in view of the dearness of raw material.

AGAR-AGAR.—Small sales of good No. 1 Kobe strip have been made at 2*s.* per lb. spot.

ALOES.—Sixty packages Cape have arrived from Mossel Bay, but there have been no arrivals of other descriptions.

ANISEED is steady at 25*s.* per cwt. for good Russian, and 37*s.* 6*d.* to 38*s.* 6*d.* for Spanish on the spot.

ASAFETIDA.—About 100 packages new arrivals from the Persian Gulf will be offered next week.

BALSAM PERU.—Genuine is firm at from 7*s.* 6*d.* to 7*s.* 8*d.* per lb. spot, with other qualities down to 7*s.* 3*d.*

BALSAM TOLU.—Quiet, but steady, at from 11*d.* to 1*s.* per lb. spot.

BENZOIN.—Fifty cases Sumatra have arrived: deliveries of this description are good.

BUCHU.—The spot market remains firm, holders asking 3*s.* 1*d.* per lb. for good green round, and 3*s.* for ordinary; several bales have been sold at 3*s.*, and it is stated that there are now only three bales of round green left in first-hands. The offerings in next week's drug sales in first-hands will include three bales "longs."

According to the Customs' bill of entry the *Balmoral Castle* brought 54 bales this week, but this should read 27 bales only, which are all in transit for Hamburg and New York.

The exports from Cape Town during March amounted to 32,410 lb., valued at 2,368*l.*, which makes the total for the quarter 119,355 lb., valued at 8,946*l.*, which compares with 168,123 lb. in the corresponding quarter of 1909, or 48,768 lb. less.

CAMPHOR (REFINED).—A sale of 100 cases Japanese 2½-lb. slabs is reported at 1*s.* 5⅞*d.* c.i.f. for June-July shipment.

CANARY-SEED is unchanged at 40*s.* to 41*s.* per quarter for Turkish and ordinary Morocco on the spot, and at 45*s.* to 47*s.* 6*d.* for good qualities of the latter.

Capsicums.—Steady. At auction 26 bags Nyasaland sold at 51*s.* for dark red off-stalk, 48*s.* for yellow and reddish, and 45*s.* for part perished.

Caraway-seed is now quoted 27*s.* 6*d.* to 28*s.* 6*d.* per cwt. for ordinary to good Dutch on the spot.

Cascara Sagrada.—The fact that the drug has been talked higher "on the other side" for several weeks has not roused this market from inertia; from 34*s.* to 38*s.* per cwt. is quoted as to quality and quantity.

Chamomiles.—Quiet and unaltered, fair Belgian offering at 65*s.* per cwt. spot.

Chillies.—Steady at auction, 46*s.* per cwt. being paid for 22 bags fair red Nyasaland.

Cinchona.—At the London auction on Tuesday 788 packages were offered, of which 532 packages sold at a slight improvement, the average unit being $\frac{11}{16}$*d.* per lb. The total weight of quinine in the bark was about 120,000 oz.

The following table shows the quantity of packages offered and sold:

	Packages offered.		Packages sold.
East Indian cinchona ...	235	of which	189
Java cinchona...	260	,,	177
Ceylon cinchona	243	,,	166
	738		532

The following were the approximate quantities purchased by the principal buyers:

	lb.
Howards & Sons, Ltd.	38,900
The Frankfort and Stuttgart factories ...	30,393
The Mannheim factory	16,275
The Brunswick factory	5,075
Druggists	8,011
Total quantity sold	98,654
Bought in or withdrawn	52,033
	150,687

The prices paid were as follows:—East Indian, Succirubra original stem chips, $2\frac{7}{8}$*d.* Ledgeriana stem chips, $2\frac{1}{4}$*d.*; root, $3\frac{1}{8}$*d.* Hybrid stem chips, 3*d.*; branch, $1\frac{5}{8}$*d.* to 2*d.*; root, $1\frac{3}{4}$*d.* Ceylon, Succirubra, natural stem chips, $2\frac{5}{8}$*d.*; Quilly chips, ditto, $3\frac{1}{8}$*d.* Hybrid stem chips, $3\frac{5}{8}$*d.* to $3\frac{3}{4}$*d.* Quilly chips, 4*d.* Java, Ledgeriana stem chips, $3\frac{7}{8}$*d.*; branch, $2\frac{3}{4}$*d.* to $2\frac{7}{8}$*d.*; root, $4\frac{5}{8}$*d.* to $4\frac{3}{4}$*d.* Hybrid stem chips, $2\frac{3}{8}$*d.* to 3*d.*; and root, $3\frac{1}{8}$*d.*

Further particulars in regard to the Amsterdam auction to be held on June 2 show that the 8.001 bales and 811 cases weigh 804,163 kilos. and contain the equivalent of 47,818 kilos. quinine sulphate; of this 672,927 kilos. is manufacturing bark, representing 42,931 kilos. quinine, while the pharmaceutical bark weighs 131,236 kilos. and contains the equivalent of 4,887 kilos. quinine. The average percentage of quinine in the manufacturing bark is about 6.38 per cent., as compared with 6.27 per cent. in April, 6.05 per cent. in March, and 6.19 per cent. in February. The arrivals in London include 22 bales W. African and 38 bales from Mollendo.

Cinnamon.—The next quarterly auction will be held on Monday.

Cloves.—At auction 75 bales Zanzibar offered, of which 25 sold without reserve at from $4\frac{5}{8}$*d.* to $4\frac{3}{4}$*d.* for grease-damaged, fair sound was bought in at 5*d.*; six cases mixed Penang were bought in at 1*s.* 3*d.* Privately sellers of May-June to arrive quote 5*d.* per lb. c.i.f., for June-August delivery sales have been made at $4\frac{15}{16}$*d.*, and August-October at $5\frac{1}{16}$*d.*

Copper Sulphate is easier at 17*l.* 12*s.* 6*d.* per ton for Liverpool brands.

Coriander-seed is firm at 9*s.* 6*d.* to 10*s.* 6*d.* per cwt. for common to ordinary and 10*s.* 6*d.* for good Morocco on the spot.

Cumin-seed is firm at 33*s.* to 37*s.* per cwt. for ordinary dusty to good sifted Morocco on the spot. Malta is still held for 40*s.* per cwt.

Dragon's-blood.—Thirteen cases have arrived per *Manila* from Penang, and five cases from Singapore per *Yang-tsze.* There will be a good assortment of reboiled Singapore lump on offer next week; meanwhile this description has been selling privately at 11*l.* 10*s.*

Fenugreek-seed is slow of sale at 10*s.* to 11*s.* per cwt. on the spot for retail lots of common to good Morocco.

Galls.—Persian are extremely dull, it being possible to buy blue at 55*s.*

Gamboge.—Ten cases fair Siam quality have arrived.

Ginger.—At auction 239 barrels Jamaica were offered and a few sold, including fair bright at 65*s.*, good middling at 63*s.*, and good ordinary small at 53*s.* Of Cochin and Calicut, 708 packages were offered and bought in, including C cut at 60*s.*, bright washed Calicut at 55*s.*, D rough at 50*s.*, cuttings at 52*s.* 6*d.*, and washed rough Cochin at from 48*s.* to 52*s.* 6*d.* The sales in Liverpool include 20 tons Sierra Leone afloat at 42*s.* to 43*s.* 6*d.* ex quay in transit.

Glycerin.—In spite of the fact of attempts of certain Continental refiners to depress the market the tendency is very firm, inasmuch as there are considerable inquiries for dynamite quality on behalf of the United States for use on the Panama Canal, while the British Government is also in the market for refined glycerin. In view of these developments, those in a position to judge do not anticipate any change in double-distilled quality for the remainder of this year.

Indiarubber.—At auction on Tuesday and Wednesday about 156 tons Malaya and 22 tons Ceylon were offered and partly sold at very irregular but considerably lower prices as compared with the previous sales, the principal demand being for fine plantation sheet and biscuits, these showing a decline of 1*s.* to 1*s.* 6*d.* per lb.; an unusual proportion of poor immature quality was offered, which sold badly and at a substantial decline. Fair to fine smoked sheet sold at 10*s.* down to 9*s.* $7\frac{1}{2}$*d.* Privately the market has declined about 6*d.* to 9*d.* per lb. on the week, hard fine Para closing at 10*s.* 1*d.* spot and June-July delivery, only small sales having been made.

Insect Flowers.—There is a temporary scarcity of closed flowers on the spot, but several parcels are on the way. A few bales of "open" are available at 120*s.* and to arrive 90*s.* to 95*s.* c.i.f. is quoted for this grade.

Ipecacuanha.—Matto Grosso has been in improved demand, several bales changing hands at from 9*s.* to 9*s.* 2*d.* per lb. Cultivated Minas is quoted 9*s.*, and Cartagena at from 5*s.* 9*d.* to 6*s.* Eight bales Matto Grosso have arrived.

Jaborandi.—There is a considerable stock of small brown leaf held in Liverpool, for which 3*d.* per lb. is wanted.

Jalap.—Firm, with further business in untested stuff at 1*s.* and 10 per cent. resin at 1*s.* 3*d.* per lb. spot. About five tons have been re-shipped to the United States, which leaves this market very bare.

Lime-juice.—West Indian raw is quiet, but steady, at from 11*d.* to 1*s.* 1*d.* per gal. as to quality. *Concentrated* West Indian is nominal at 18*l.* 10*s.*; arrivals continue on a very small scale.

Linseed is steady for good quality at 68*s.* to 70*s.* per quarter.

Mercurials.—Owing to the decline of 5*s.* in quicksilver the makers of mercurials have reduced their prices by 1*d.* per lb., the quotations of the leading salts being as follows: White precipitate, 3*s.* 4*d.*; corrosive sublimate, 2*s.* $8\frac{1}{2}$*d.*; calomel, 3*s.* $0\frac{1}{2}$*d.*; red precipitate, 3*s.* 4*d.*; levigated ditto, 3*s.* 4*d.*; yellow oxide B.P., 3*s.* $6\frac{1}{2}$*d.* These are the list quotations and for lots below 2 cwt.

Oil, Bergamot.—An advice from Palermo, dated May 21, states that there is nothing new to report either in the market position or prices; for shipment from 14*s.* 6*d.* to 14*s.* 9*d.* per lb. c.i.f. is quoted.

Oil, Castor, is lower. Hull make is quoted 29*l.* 5*s.* per ton in barrels for first pressing for June-December delivery, while Belgian firsts is 30*l.* 10*s.* for prompt and 30*l.* for June-December. In Liverpool good seconds Calcutta is quoted $3\frac{5}{8}$*d.* per lb.

Oil, Cod-liver.—Owing to stormy weather and lack of bait the Finmarken fishing (writes our Bergen correspondent on May 23) was rather poor during the past week, but a report received to-day indicates better catches, espe-

cially for the western places. In Finmarken the output of the fishing to May 23 has been as follows :

	1908	1909	1910
Catch of cod (millions)	8.6	13.0	15 9
Yield of cod-liver oil (hect.) ...	6,400	6,000	9 400
Liver for "raw" oils (hect.) ...	12,300	14,150	7,150

And for all the Norwegian cod-fisheries the reports give the following figures :

	1908	1909	1910
Catch of cod (millions)	42.5	51.7	49.5
Yield of cod-liver oil (barrels) .	45,600	40,400	32,000
Liver for "raw" oils (hect.) ...	22,900	24,500	16,000

The cod's liver is somewhat larger now than at the beginning of the fishery, but the prices for it have also advanced in the same proportion. The number of fishermen taking part in the Finmarken fishing this year is greater than in any foregoing year. On the market the tone is very quiet at the last quotation of about 103*s.* 6*d.* c.i.f. terms. The exports from Bergen up to date amount to 4,050 barrels, against 5,570 barrels at the same date of 1909. The London market remains unaltered, with business quiet retail, agents quoting from 103*s.* 6*d.* to 105*s.* ; but prices are more or less nominal at the moment, and reasonable bids would be submitted.

Oil, Lemon.—The market position, according to Sicilian advices, continues favourable, and the fact that the end of the pressing season is at hand gives prices a very firm tendency and a slight improvement is shown. The demand from abroad remains slack, although there is a little occasional inquiry. For shipment from 3*s.* 4*d.* to 3*s.* 6*d.* per lb. c.i.f. is quoted.

Oils (Fixed).—*Linseed* on balance is practically unchanged at 35*s.* 6*d.* on spot in pipes and 35*s.* 9*d.* in barrels. Both Cochin and Ceylon *Coconut* are steady and unaltered at 49*s.* and 45*s.* per cwt. spot respectively. *Rape* is quiet at 27*s.* for ordinary brown crude, at 29*s.* for English refined in casks, and 26*s.* 6*d.* for Jamba. Crude *Cottonseed* is also quiet at 31*s.* 3*d.* spot, 31*s.* for ordinary pale refined, and 36*s.* for sweet refined. *Soya* is unchanged at 34*s.* 3*d.* for naked on spot. *Petroleum* is nominal, and turpentine has fluctuated considerably; after declining on Tuesday, the market on Wednesday took an upward turn, American on spot closing at 43*s.* 6*d.* per cwt.

Opium.—Beyond an occasional retail sale there is likely to be no movement in the London market in this drug for the next six weeks. In view of the anticipated large Turkish crop everybody is looking for lower prices, and for this reason prices are nominal. Persian is offered at 9*s.* 6*d.* spot.

A Smyrna correspondent, writing on May 13, states that the sales amount to twelve cases selected Karahissar 16*s.* 6*d.*, and one case Yerli selected at 17*s.* Notwithstanding that the demand has continued more or less every week with full figures paid, there is a marked weaker feeling prevailing during the last few days. This is principally owing to the very favourable reports concerning the crop, which daily arrive from all growing centres, and holders now begin to feel anxious, as they have disposed of their holdings. It is not at all certain at this early date to predict what the opening prices of new crop will be, but from 12*s.* to 13*s.* will probably be paid by consumers at first, and then the value of the drug will be regulated more or less by the extent of the return of the crop and the demand from the consuming markets. The arrivals to date amount to 1848 cases, against 2837 cases at same period last year. Writing on May 14, another correspondent states that the sales amount to seven cases extra Karahissar at piastres 150 or 16*s.* 6*d.* per lb. c.i.f. for export. The rains which have fallen everywhere will postpone the cutting in the Smyrna districts, where they should commence at the end of May. It is to be regretted that the high prices paid will have a considerable influence on the opening rates paid for new crop, which according to all accounts will be abundant.

The sales during the week ending May 21 amount to 23 cases at 130 piastres for old crop, or equivalent to 14*s.* 4*d.* per lb. c.i.f. These sales were for England. The cutting has commenced in some parts of the Smyrna district, and the rains which have fallen have somewhat damaged the crop, but it is nothing serious at the moment. The high plateaus will benefit by the temperature, and unless further rain takes place the actual damage will be compensated. Arrivals amount to 1,953 cases, as compared with 2,068 cases last year.

Otto of Rose.—The harvesting of this year's Bulgarian rose crop is only one week in advance of the usual time. The many rain showers which fell throughout the whole district at the end of April and during the first four days of May, almost in succession, so cooled the atmosphere that on May 4 a thin covering of snow fell on four of the highest peaks of the Balkan Range. The snow melted the next day without causing any damage worth speaking of, but it so chilled the air in the rose valleys that the harvesting was retarded by nearly a whole week. In the middle of last week (May 11) the distillation of the rose crop began in all the rose villages in the county of Stara Zagora, and this week the distillation has extended in all the southern rose villages in the counties of Tcherpar, Brezova, Philippople, and Karlovo. By the middle of next week it will become almost general, and will extend all over the whole rose district. The weather all through May has been ideal. As a result, with very slight exceptions, the rose bushes are in splendid condition and covered with rich clusters of rosebuds. The general outlook is promising, and exceeds expectations. While a rose crop depends mostly on the weather during the harvest, and it may be as yet too early to forecast the yield, the present conditions are all in favour not only of a rich crop but also of a record crop.

Pimento.—Quiet. At auction 83 bags were offered, and three sold at $2\frac{1}{8}$*d.* for fair mixed black; privately sellers of distant shipment quote 20*s.* per cwt. c.i.f.

Potassium Iodide of Japanese make is obtainable in limited quantity at 7*s.* 5*d.* per lb. net on the spot; some thirty cases have arrived this week. English make is quoted 7*s.* 11*d.*, less 5 per cent., in 1-cwt. lots.

Quicksilver.—The principal importer reduced his price by 5*s.* on Tuesday to 8*l.* 15*s.* per bottle, and second-hands now quote 8*l.* 13*s.* 6*d.*

Quince Seed.—Cape are unobtainable on the spot; the nominal quotation is from 2*s.* to 2*s.* 6*d.* per lb.

Quinine.—At the auction held by the Amsterdam Quinine Works on May 20 $1,417\frac{1}{2}$ kilos. Ed. II. quinine were offered and sold at an average price of $10.47\frac{1}{2}$fl., against 10.52fl. per kilo. at the previous auction. The next auction will be held June 10, and will consist of $1,417\frac{1}{2}$ kilos. In London prices remain unchanged at $7\frac{1}{2}$*d.* for German sulphate from makers, 7*d.* from second-hands, $6\frac{3}{4}$*d.* for Amsterdam, and $6\frac{5}{8}$*d.* for Java.

Rhubarb.—About fifty cases, chiefly Shensi, have been sold this week.

Shellac.—At auction 258 cases were offered and 43 cases sold without reserve, chiefly TN Orange, at an advance on last sale of 4*s.* to 5*s.* Of 162 cases Orange 37 sold without reserve, reddish matted to blocky TN, at 66*s.* to 67*s.* 65 cases Garnet were bought in at 67*s.* for AC. Privately fair spot sales have been made on a basis of 72*s.* to 74*s.* for fair free TN Orange, being an advance of from 3*s.* to 4*s.* per cwt.; for arrival TN May-June shipment is quoted 73*s.*, October-December sold at 76*s.*, and AC Garnet at 67*s.* c.i.f. Futures show a very active market at a considerable advance, it being said that over 5,000 cases have changed hands, including May delivery at 72*s.*, June at 73*s.* 6*d.* to 75*s.*, August at 74*s.* 6*d.* to 76*s.* 6*d.*, October at 75*s.* 6*d.* to 78*s.* 6*d.*, December at 77*s.* to 80*s.*

Soy is firm at from 1*s.* $4\frac{1}{2}$*d.* to 1*s.* 5*d.* per gal., duty paid, these prices being for good thick.

Thymol.—The convention among makers has been dissolved owing to price-cutting, and there are now offers at 5*s.* per lb., which is a reduction of fully 1*s.* per lb. on previous rates. Raw material (ajowan seed) is much more plentiful, and has been offered at lower prices lately.

Tragacanth.—During the past fortnight there has been a good demand, principally for export, at fairly steady prices for the medium and higher grades. The value of fine druggists's flake is from 15*l.* 10*s.* to 16*l.* per cwt.

Vermilion has been reduced 1*d.* per lb. in consequence of the decline in quicksilver, 2*s.* 8*d.* per lb. being quoted, and less for quantity.

Wax, Bees'.—The sales in Liverpool include Gambia at 7*l.* 5*s.* per cwt., and Chilian at 7*s.* 10*s.*

Wax, Japanese.—Business has been done for July-August shipment at 38*s.* c.i.f. Continent.

Thorium Nitrate.

The fall in thorium prices, which was referred to in our issue of March 5 (p. 370), is attributed to over-production rather than to competition and an absence of understanding between manufacturers. The import of monazite sand into the United States is rendered difficult by the high import duty charged, so that American manufacturers of thorium nitrate have to obtain their supplies from local sources, though, owing to cheaper European manufacturing processes, much of the thorium nitrate employed by the incandescent-mantle industry is imported from Europe, despite the high duties. Apart from America, thorium nitrate is manufactured only in Europe, the monazite sand being supplied from Brazil. The yearly consumption of monazite sand for the manufacture of thorium nitrate is said to range between 2,000 tons and 2,500 tons. According to Brazilian Government estimates, 15,000 tons of monazite sand have been supplied to the Hamburg market during the past five years on the basis of a treaty between the Government and a European "combine" to which the Hamburg firm of de Freytas belongs. A Brazilian-American firm is known to have imported into Hamburg from private monazite-sand deposits in Brazil another 5,000 tons, while other firms have imported about 2,000 tons. This gives a supply of monazite sand of about 22,000 tons in a period of five years, compared with a consumption of 10,000 tons. Now that the treaty between the Brazilian Government and the combine of thorium-nitrate manufacturers is on the eve of expiry the Brazilian Government is said to have already received tenders from twenty-five firms.

Cajuput Oil.

By R. C. Cowley, F.C.S.,
Principal of the Brisbane College of Pharmacy.

MELALEUCA LEUCADENDRON is a very common tree in the coastal districts of Queensland. It is found growing in damp places, alongside creeks and water-holes. The name "Leucadendron" refers to the white scaly cork covering the plant. According to our very able Colonial botanist, Mr. F. M. Bailey, there are at least seven varieties of this tree growing in Queensland; that growing in the Brisbane district is known as *Melaleuca Leucadendron* var. *lancifolia*. The local name of the tree is "Ti-tree." Mr. Bailey states in his "Queensland Flora" that it is from varieties of this plant that cajuput oil is obtained in the East Indies. Bentham also considered the cajuput oil to be derived from a form of *M. Leucadendron*. Bentley and Trimen do not commit themselves either way as to the plant yielding cajuput oil being distinct from the ti-tree of Australia (see Bentley and Trimen, "Medicinal Plants," 108).

The ti-tree has a thick bark which is constantly exfoliating thin papery layers of cork of a white colour. This exfoliation of cork is characteristic of many Australian plants which are, like the ti-tree, provided with phyllodes in place of true leaves. These plants respire largely through the stem, and adopt this plan of keeping their lenticels open. The different varieties of *Melaleuca* vary in size; some are tall trees, others are small, var. *lancifolia* being perhaps 20 to 25 ft. high. The leaves also vary in size considerably; those of *lancifolia* are about 3 in. long. The ti-tree is by no means confined to the State of Queensland

The oil is distilled in small quantities in Brisbane by Mr. T. Ingham, and by Messrs. Thomason, Chater, Ltd. The yield is small from the *lancifolia* variety—the only plant from which I have received an authentic sample of oil. Probably other varieties will give a larger yield. The oil is quite colourless, having a pronounced cajuput flavour. It is worthy of note that the blue colour of commercial cajuput oil is due to copper being employed in the construction of parts of the still. Copper stills are not employed in the manufacture of eucalyptus oil, to avoid having a blue-coloured product. The following chemical and physical factors were obtained from a sample of oil distilled from *M. Leucadendron* var. *lancifolia* by Mr. T. Ingham, of Brisbane:

Specific gravity	0.922
Optical rotation (100 mm.) ...	−3
Refractive index	1.4623
Cineol	45 per cent.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they are not recorded.

Queries by subscribers on dispensing, legal, and miscellaneous subjects pertaining to pharmacy and its allied trades are replied to in these columns, if they are of general interest.

Letters submitted to the Editor for publication (if suitable) should be written on one side of the paper only. Their publication in the "C. & D." does not imply our agreement with the opinions of the writers.

The Pharmacopœia as a Standard.

SIR,—Though Mr. E. J. Parry's style of letter-writing cannot be commended, perhaps a few more words on the subject may be useful to those of your readers who take an interest in the question. From an analytical point of view the preparations of the Pharmacopœia may be divided into two classes—(*a*) those having standard tests, and (*b*) those made according to a prescribed formula, but having no standard tests. We are meantime only considering the latter class. Now it is recognised that when volatile ingredients enter into the preparation there is liable to be more or less loss in the process of making, or, it may sometimes be, in keeping. For instance, in the case of a tincture made by maceration and pressure there is always more or less loss of spirit, and an additional loss if the tincture is filtered. There is a maximum or optimum result obtainable, and it comes to be a question what degree of departure from that best may be permitted. In a certain case it was decided that a considerable deficiency in acetic acid in acetum scillæ might be excused, because there is loss in "the process of manufacture" and a further diminution "according to the care used in storage." When I suggest that a moderate deficiency of camphor in liniment of camphor might be excused on the same ground, Mr. Parry replies that you might as well excuse a deficiency of alcohol in a tincture by pleading that you had spilt some of the alcohol on the floor! Is there any fairness or veracity in the analogy? Mr. Parry's interpretation of Section 4 of the Sale of Food and Drugs Act, 1875, is of the nature of a legal quibble. The section is quite obviously directed against fraud. To mix pulv. ipecac. with French chalk and colouring-matter, with intent to sell the mixture as powdered ipecacuanha, would be an offence under the section; but to mix pulv. ipecac. with pulv. opii and potass. sulph., with intent to sell it as Dover's powder, would not be an offence. Neither is it an offence under the section to mix powdered opium with sugar of milk in order to make pulv. opii of the British Pharmacopœia. If it is not irreverent to say so, Mr. Parry has discovered "a mare's nest."

Yours truly,
Musselburgh, May 23. D. B. DOTT.

N.U.A.P.

SIR,—May I be allowed the hospitality of your columns for a few remarks on things pertaining to the N.U.A.P.? The best thanks of the Union are tendered to all those members of the Pharmaceutical Society who supported the N.U.A.P. candidates in the recent election. Though we failed to return Messrs. Dowty and Waldron, few will deny that assistant candidates are a practical proposition for the future, and, given a more perfected organisation and learning by experience, we may yet reasonably hope to secure an adequate and legitimate voice in pharmaceutical government. Touching upon the Cheltenham *contretemps*, it is to be regretted that Mr. Dowty abused somewhat the hospitality granted at all times so generously by the trade journals; though we are induced to believe it was very largely the outcome of extreme provocation locally. The edifying spectacle of so many Cheltenham employés rising *en masse* to denounce a fellow-assistant at a crucial moment for him in pharmaceutical politics implies more than being merely "purged of all earthly passions," like the Pecksniffian steed, on their part. All the evidence obtainable is being procured, and will be dealt with by the next

xecutive meeting, when, though the Union must disclaim ll initial responsibility and foreknowledge of the incident, dequate apologies and explanations will be made wherever ue.

Faithfully yours,
Jas. Smith,
President N.U.A.P.

London, May 24.

Mr. George Jelf (Cheltenham) also writes in reply to Mr. Dowty's statements of last week. The material part of Mr. Jelf's letter is as follows: "It would be extremely nteresting to know the actual number of members in the o-called Cheltenham branch. Judging from the attendance t the meeting, I should think it must be somewhere about wo, Mr. Dowty and his fellow-assistant (Mr. Norman). I nost emphatically deny his statement that the report was ubmitted to me. He may have called with that intention, ut my employer appeared and asked Mr. Dowty in, and I elieve I am correct in saying did not order him off the remises, but said he would rather Mr. Dowty did not pproach any of his staff." [Here this incident may end ntil the Council of the N.U.A.P. considers it, and takes teps to prevent a recurrence.—Ed. *C. & D.*]

Mr. Rowsell's Thanks.

Sir,—Will you kindly allow me space in which to exress my sincere thanks to those 1,542 members of the ociety who recorded their votes in my favour at the ecent Council election? I heartily congratulate Dr. ymes on his return to the Council, and if there is anyhing that will help me to decide to stand again—as so nany of my friends who have written me during the past ew days wish me to do—it will be that I was only thirtyne behind the doctor. If I may be excused for saying ust one thing as to the future, that one thing is—let the ord "Pharmacy" be secured as quickly as possible for he craft.

Yours very truly,
Philip F. Rowsell.

Exeter, May 25.

The Phœnix.

Sir,—"Xrayser's" interesting remarks respecting the hœnix do not include any reference to Browne's Enquiry into Vulgar and Common Errors." In this ork Dr. Browne devotes upwards of five pages to the bject "of the Phœnix." Commencing, he says:

"There is but one Phœnix in the world, which after many undred yeares burneth itselfe, and from the ashes thereof riseth up another, is a conceit not new, or altogether popular, ut of great antiquity."

Dr. Lightfoot and other writers referred to had probly read the arguments of Dr. Browne, who was of the inion that a mistranslated word affords the clue—

"As for the Texts of Scripture, which seem to confirme the nceit duly perpended, they adde not thereunto. For hereas in that of Job, according to the Septuagint or Greeke anslation we finde the word Phœnix, yet can it have no nimal signification; for therein it is not expressed *φοίνιξ*, t *στέλεχος φοίνικος* the trunecke of the Palme tree, which as so called Phœnix, and therefore the construction will be ery hard, if not applyed unto some vegetable nature, nor n we safely insist upon the Greek expression at all: for ough the Vulgar translates it Palma & som retain the word hœnix, others do render it by a word of a different sense, r so hath Tremellius delivered it: *Dicebam quod apud dum meum expirabo; et sicut arena multiplicabo dies;* hath the Geneva and ours translated it."

Of the marginal reading he says:

"In the interpretation of Beda, '*Dicebam in nidulo meo oriar et sicut Phœnix multiplicabo dies*,' and compares ertullian's rendering of Psalm xcii., verse 12, '*Vir justus ut hœnix florebit*,' which our translation gives: 'The righteous all flourish like the palm-tree.'"

The ancient authors were doubtful of the authenticity the stories of the "bird." "Thus," says Dr. Browne, Herodotus in his 'Euterpe'

presently interposeth *ἐμοὶ μὲν οὐ πιστὰ λέγοντες*, that is, which count seems to me improbable." Tacitus in his 'Annals' fordeth a larger story, how the Phœnix was first seen at eliopolis in the reigne of Sesostris, then in the reigne of masis, after in the days of Ptolomy, but at last thus determineth: *Sed Antiquitas obscura, et nonnulli falsum esse hunc hœnicem, neque Arabum è terris credidere.* Pliny makes yet fairer story, that the Phœnix flew into Egypt in the nsulship of Quintus Planeius, that it was brought into Rome the Censorship of Claudius, in the 800 yeare of the City, and testified also in their records, but after all concludeth, *Sed quæ falsa esse nemo dubitabit.*"

The conclusion Dr. Browne arrived at was:

"It was only a mistake upon the homonymy of the Greeke word Phœnix, which signifies also a Palme tree, which is a fallacy of equivocation, from a community in name, inferring a common nature, and whereby we may as firmly conclude that Diaphœnicon, a purging electuary, hath some part of the Phœnix for its ingredient, which receives its name from Dates or the fruit of the Palme tree, from whence as Pliny delivers, the Phœnix had its name," for as this author says: "It is a folly to finde out remedies that are not recoverable under a thousand years or propose the prolonging of life by that which the twentieth generation may never behold; more veniable is a dependence upon the Philosopher's stone, potable gold, or any of those Arcanas whereby Paracelsus, that dyed himself at 47, gloried that he could make other men immortal; which secrets, although extreamly difficult, and *tantum non* infesible, yet are they not impossible, nor do they (rightly understood) impose any violence on Nature."

Paracelsus, in his book "De Azoth, or de ligno et linea vitae," and others of the mystic school, wrote about the Phœnix in connection with their elixirs. Probably from its use by these hermetical philosophers it came in time to be adopted by their lineal descendants, the chemists. Surely it was a happy thought to combine the key and the Phœnix to form the title for the oracle of the trade, the *C. & D.*, which has during the half-century of its existence unlocked many secrets, which were previously hermetically sealed, and spread them out for the benefit of its subscribers.

Faithfully yours,
Quercus. (175/53.)

London.

Sir,—I am unable to pay a higher compliment to "Xrayser II." than by saying I read, mark, and study his "Observations and Reflections" weekly. Job xxix. 18 I read, "Then I said, I shall die in my nest, and I shall multiply my days as the sand" (Auth. Version). Revised Version (margin) "or turban." French version (Nancy) "Et je disais, Je mourrai dans mon nid, et je multiplierai mes jours comme les grains de sable." Concordance (Dr. King) "as the sand." Which is the correct reading—nest, sand, or turban? Where does the Phœnix come in, in its 1460th year and day of self-combustion?

Yours truly,
R. G. Mumbray.

Chances in Australia.

Sir,—I take great pleasure in reading The Chemist and Druggist, and eagerly look forward to its coming when the English mail arrives. I see that there are always a large number of assistants advertising for places in the Supplement, and I suppose some of them will go on advertising for places to the end of the chapter, and never be anything else all their lives than assistants. I think it a pity that some of them do not launch out and come to the Colonies, and, if possible, start in business for themselves. The Australian States are the best of all the British Colonies, not only for chemists, but especially for those who have to make their living off the land, such as farmers and those who make their living off the farmers, who are the bedrock supporters of the Commonwealth. New Zealand is done. That country is living on borrowed London money, and every year goes to London to borrow a million or two. Rents, rates, and taxes are positively dreadful, and wages are very high, but of little use to the worker, as everything he has to buy is on a par with the money he earns. There is a terrible day of reckoning in store for that country, and all on account of a selfish lot of legislators pandering to a horde of Socialists who care for nothing and nobody, so long as they get their own selfish ends served. There are numbers of townships opening up all over Australia, and any number of good chances for an able, energetic, qualified man, especially one who can do dentistry, minor surgery, and prescribing. A living could be made from the start; and, if careful, a competence in a few years, as there are more ways of making money in a new country than by one's own business. It would not take much to commence a business, as an elaborate establishment would be quite out of place till the situation warranted it. Of course it would not do to start a business straight away till one learned the ways of the country

and the people, but a year or so spent in the country would not be lost to an observant man. All the towns at home that will support a chemist are well supplied, and I do not see much in front of some men when they get old, except the workhouse or an old-age pension. I shall be glad to answer any letters and give what particulars I can to benefit my brother chemists, and to that end my address can be obtained from the Editor.

Yours faithfully,

Ph. Chemist. (175/34.)

South Australia, April 19.

Legal Queries.

Consult the legal information in "The Chemists' and Druggists Diary," 1910, before writing about your difficulty.

Wincarnis (175/74).—You will find the law in regard to closing in Ireland on Saturday nights stated in the *Diary*, p. 239. The alternative given to you by the Excise officer, to store the wines in a room distinct from the shop, is correct.

Injury (166/42).—In the circumstances which you relate it would be unwise for the carter to admit liability to pay the medical fee. The injured boy's father is the person who should pay, and he may claim from the owner of the cart.

Sea (173/37).—The label which you use is in accordance with the decision of the High Court in the Pharmaceutical Society *v.* Edwards. The address of the place at which the poison is sold or dispensed must be clearly indicated on the label.

Advice (173/65) wants to know what will happen if he uses the following on labels: (1) "These pills are *not* Beecham's, but are equal to any"; (2) "20th Century Pills. Not worth a guinea a box, but equal to any." [Ask Mr. Beecham; he has the right to object to anybody using his name for purposes of trade gain, especially in this objectionable manner.]

N. H. L. (175/25).—Hobson's Choice corn-plaisters are made by a Leeds firm. We do not know what rights they have established in the title, but they appear to have prior user, and it is never wise where such exists for other traders to adopt an established title without assuring themselves of their liberty of action.

Osborne (175/2).—The Lunacy Acts provide that a person not being a pauper or a lunatic so found by inquisition shall not be received and detained as a lunatic in an institution for lunatics unless under a reception order made by the judicial authority and accompanied by two medical certificates on separate sheets of paper. The Acts also provide for the recovery of medical expenses from the person liable for the maintenance. We are therefore of opinion that you are legally liable to pay the fees of both medical men.

Beta (175/1) owed a firm some money, and a writ was about to be issued, but was not actually served before he paid part of the money, and an arrangement was made to withdraw all proceedings and the account to continue. The balance was paid and half of the subsequent account opened, when the writ proceedings on the first account were reopened and execution put in for 7*l.* odd, which he paid at once. Can he recover this 7*l.* from them? [In general the party who pays money has the right to direct the application of it; but where money is paid to a creditor generally without any specific appropriation by the party paying, and the creditor has several demands against the party paying, he may apply the money paid to whichever of those demands he pleases. It would appear that "Beta" did not appropriate the money he paid to the old account, and that the creditors appropriated it to the new account, leaving the old debt outstanding. If this is so, we do not think "Beta" is entitled to recover the 7*l.* odd paid by him under the execution.]

Miscellaneous Inquiries.

As we do not in this section repeat information given during the past twelve months, inquirers should refer to the copies mentioned. Back numbers for the past five years can generally be obtained from our office at the published prices.

Sulphur (164/42).—Sulphur-and-Lead Hair-lotion sometimes causes a rash. In such cases the lotion should be discontinued.

Asaph (174/50).—The plant you send is *Symphytum officinale* var. *patens*, Sibth., a variety of the common comfrey with a purple corolla.

A. E. (177/9).—Your Repeated Attacks of Cold in the Head are probably due to your being below par. After recovering from the next attack take two teaspoonfuls of malt and cod-liver oil thrice a day with food, and at twelve and four o'clock take a dose consisting of caffein. citrat. gr. j., liq. strychninæ ♏iij., acid. sulph. aromat. ♏x., in 2 oz. of water. While the cough continues take a similar dose the first thing in the morning, but with ammon. carb. gr. v. in place of the sulphuric acid. We cannot advise in regard to the bank mentioned, nor about Henry VIII. and his church and marital relations.

A Correspondent in Lagos (32/22) sends us a sample of bark under the name of Awōpa, which, he informs us, is ground into a powder and applied to sores as a substitute for iodoform. This bark has been submitted to careful examination, and appears to be that of *Enantia polycarpa*, a shrubby plant of the *Anonaceæ*. Samples of this bark have occasionally come to this country under the name of "Yellow Gleyido." As long ago as 1863 a brief note appeared in "The Technologist" stating that the natives of the West Coast of Africa employ the bark as a specific in ulcers, and also as a yellow dye. We do not consider that it is of any market value outside West Africa.

Rus (169/59).—Old May-day.—Our correspondent, remarking on the *C. & D. Diary* entry for May 14, says: "The change of style was made in 1752 by calling September 3 September 14. Would not this make May 13 correspond to the old May 1?" [The change of style was not "made," but was legalised in England by an Act passed in 1751. (In Scotland the new style was adopted at the beginning of 1600, by Act of the Privy Council.) The change was necessitated by an error in the Julian Calendar, which supposed the solar year to contain 365 days 6 hours, the actual length of the year being 365 days 5 hrs. 48 min. 46 sec. To correct this error the Gregorian Calendar suppresses three intercalations (February 29) in 400 years—*i.e.*, it makes the century years common years except when the number of the century is divisible by 4. Down to 1700 the difference between the old and the new style was ten days; but 1700 being a leap-year in the Julian Calendar and a common year in the Gregorian, the difference during the eighteenth century was eleven days: 1800 was similarly circumstanced, adding a twelfth day to the difference: the operation was repeated in 1900, making the difference between the two styles thirteen days. There will be no intercalation in the year 2000 (20 being divisible by 4), so that the present difference of thirteen days will last till the year 2100. Our correspondent's arithmetic is faulty. He says that changing September 3 into September 14 should result in making May 13 correspond to the old May 1; but the difference between September 3 and 14 is eleven days, and between May 1 and 13 is twelve days.]

Our Retrospect.

(From the "C. & D.," May 15, 1860.)

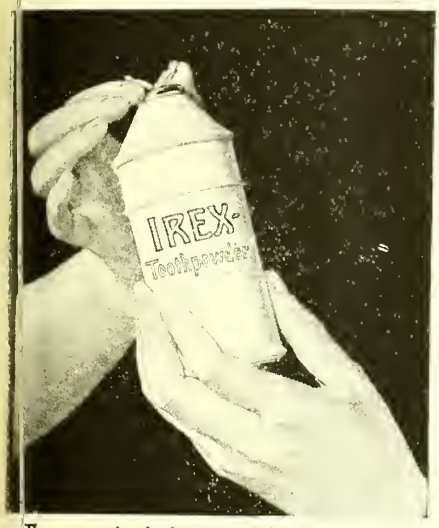
Early Closing.

A good part of the space in the issue is taken up with articles and letters on the early-closing movement. In the leading article the Editor said:

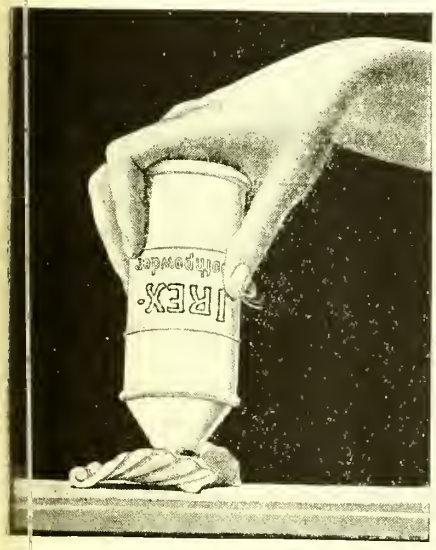
> We propose that the leading, the most influential, and the freest friends of the movement throughout the country, shall each, so to speak, describe a circle round himself, and within this area—in some cases a village, in others a district or neighbourhood, in others a division of a town—shall canvass the representatives of the chemists and druggists' trade, and endeavour to obtain signatures in favour of some earlier hour of closing, the hour to be decided by the majority in the district.

Mr. Joseph Ball, writing in regard to *Sunday Trading in Liverpool*, said:

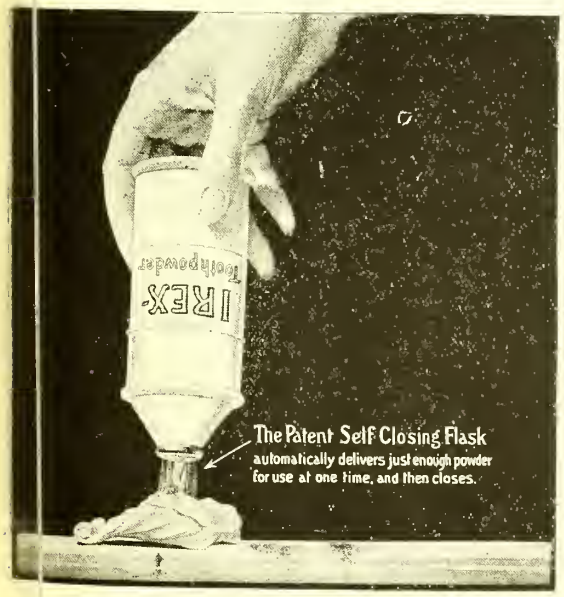
> Several of your correspondents complain bitterly of late hours and Sunday trading, and not without occasion; for it is painful to see a respectable body of men reducing themselves below any decent labourer in the kingdom, by laying themselves out for general business on the Sundays, which the latter would scorn to do. In Liverpool the evil is very great in the low and crowded districts; but a great improvement has taken place in the principal thoroughfares the last twenty to twenty-five years. About that time I believe every chemist in this town was open all the day, save about one. At this time a chemist closed his shop the whole of the Sunday, and supplied medicines only in cases of emergency; several others very soon followed the example, so far as *partially* closing is concerned, and did not open during Church Service. Now we have a considerable number who close more or less, and some few who supply nothing but medicines. Still there is room for great improvement. Apart from the religious question, which, I presume, would forbid the sale of any article save for the sick, it is one of great evil and injustice to assistants, apprentices, and others employed; it induces the public to wait until Sunday morning for many articles, such as mustard, vinegar, pepper, &c., which otherwise would be got on the Saturday; and in Liverpool it has induced many smaller shops selling these articles to open in self-defence, as some chemists do an extensive Sunday trade. The question has been raised whether a chemist would lose anything by refusing general Sunday trade; but, to my mind, the question is, whether we are to measure everything by the rule of *profit and loss*.



Turn up both levers to form a point.



Pl e point on China Tray and press down.



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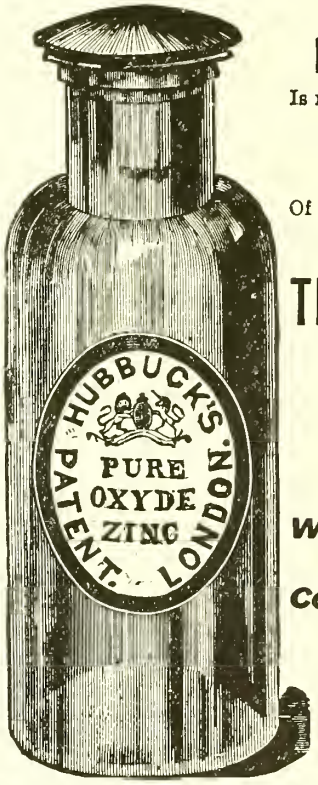

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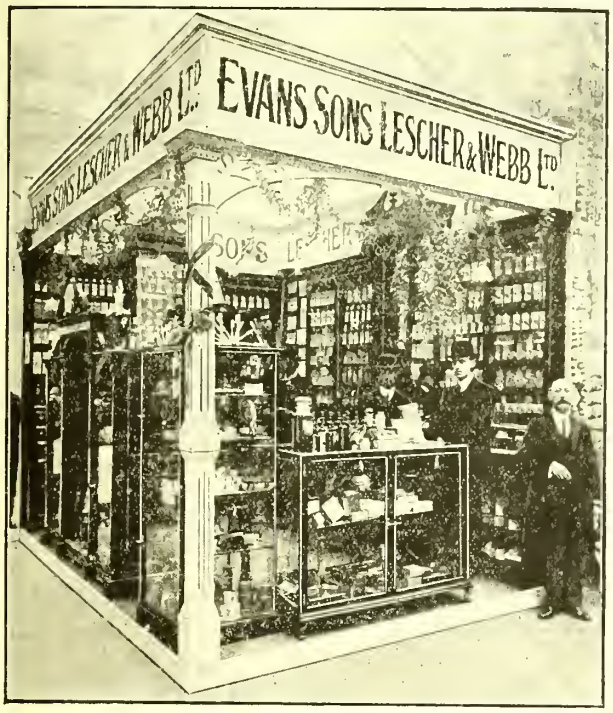

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EVANS SONS LESCHER & WEBB, LTD., are exhibiting at Stands 68 and 69. The macroscopic view of the stands conveys an idea of something quite new; in fact, the "dernier cri" in chemists' shop fittings. In these days of high rents, and of higher rates, space becomes of a greater increasing value, so much so that the old-fashioned way of shop fitting is of necessity becoming obsolete. Silent salesmen, of compact design, are displacing the space occupied by the unwieldy long front counter; high-class dispensing screens, with attractive frontages and possessing business capacity, displace the usual plain dispensing counter, and so on. This, and much more, must appeal to the observant pharmacist as he surveys the display arranged here. Photographic goods of the "Hanover" series, including the very latest in reflex, folding, and stand cameras, and all the necessary accessories of the photographic outfit, are tastefully arranged, and should prove a great attraction to the pharmacist with such side-line connection. Packed pharmaceuticals appear under the firm's original description, viz., Counter Adjuncts (Hawley). A varied assortment is to be seen at this year's Exhibition, the latest in this direction being the "Classic" series of toilet preparations. The series is presented in a most attractive design in rich pink on cream and embraces every requisite for the toilet table, and made of the very finest quality goods. This series and the "Naiad," which we had pleasure in drawing attention to last year, are most suitable for a striking and profitable window display of "own proprietary" toilet preparations. The firm has also on exhibit Thymencal, in three sizes, a preparation which is a reliable deodorant and antiseptic for internal or external use. Curdlettes, of chocolate basis, are tablets containing a very active strain of the lactic acid bacilli, certified as such by Dr. H. E. Annett, professor of comparative pathology, University of Liverpool. The firm also has on exhibit the vera. vaccines, &c., of the same university. There is also exhibited a very choice selection of crude drugs, which includes typical specimens of aloes, gamboge, benzoin, rad. chei, &c., &c. The exhibit of dry filled capsules in handsome show jars present an increasing popular form of medication, whilst the Membroids shown in a similar manner are a particularly useful form of medication for intestinal troubles. Mr. J. N. Evans (one of the directors), assisted by numerous representatives, is in charge of a most instructive exhibit.—*The British and Colonial Druggist.*

EVANS SONS LESCHER & WEBB, LTD., have a double stand at the end of the central aisle. Chemists' shop-fittings are utilised for the dual purpose of displaying the firm's products and of illustrating the high quality of the work the company turns out. The dispensing-screen has a long pier-glass which would give a bright aspect to the pharmacy. Hawley's counter adjuncts form a prominent portion of the exhibit, the new "Classic" series of toilet-preparations vying with the older well-known "Naiad" series in elegance and richness of style. The crude drugs scattered around afford a pleasing contrast to the exigencies of the modern toilet. Chocolate "Curdlettes" and the "Liverpool" virus recall the biological side of pharmacy, while photographic chemists will be interested in "Hanover" cameras and "Hanoware." Evans's distilled oils, dry-filled capsules, "Membroids," and other pharmaceutical products are displayed in the numerous handsome show-jars. Dispensing-scales, cases of surgical instruments, and druggists' sundries are also shown.—*The Chemist and Druggist.*

Chemists are invited to send enquiries on all subjects relating to their business.

EVANS SONS LESCHER & WEBB
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LIVERPOOL AND LONDON

Duncan's Anæsthetics

Chloroform (Duncan). Manufactured from PURE BRITISH ALCOHOL

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QUININE ETHYLCARBONATE. TANNINE ALBUMINATE.

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The Great Importance of the following points will appeal to all Chemists:

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We have issued the following Guarantee for many years, and shall be glad to apply it to the invoices of any of our customers who may desire it:

We guarantee all B.P. articles charged in this invoice to conform to the standard of the British Pharmacopœia, 1898, unless otherwise mentioned; and that all other articles are genuine as described.
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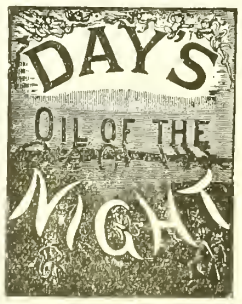

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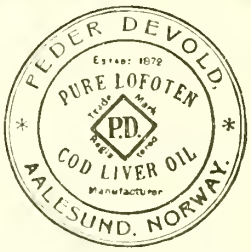

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The salt is sold in tins at **6d.** and **1/-,** and in bottles at **1/6** each, net wholesale prices **3/6, 7/-,** and **10/6** dozen respectively, and is stocked by all the London and Provincial Wholesale Patent Medicine Houses.

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to make a certain profit of **25%** on the selling price of such a popular and effective remedy as Iron-Ox Tablets. We offer you this generous profit, and ask you in return to help us by displaying our advertising matter, and by recommending the Tablets to your customers. Mutual help will pay both you and us.

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One Shilling size Under 6 dozen **10/-** per dozen net. Cash with order.
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3 ,, **37/-** do. do. or **36 -** do. do.

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Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this paper on Terms as below.

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* „ Scillæ, B.P., 7 lbs. @ 3d. lb.
*Acid Acet. Glacial., 99%, Carboys 144 lbs. @ 4½d. lb.; 12 6-lb. bots. @ 6½d. lb.; 6 lbs. @ 8d. lb.
Acid Acetylo-Salicyl., 56 lbs. @ lb.; 7 lbs. at 2/4 lb.: 1 lb. @ 2/6 lb.
„ Benz. B.P., 7 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb.
„ Boric Pulv., 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.; levigd. 3/- cwt. extra.
„ Carbol Xtls., 39/40; 56 lbs. @ 5d. lb.; 10-lb. tins @ 5/- eacb; Detached Cryst. 8/- each; 36 1-lb. Bots. @ 8½d. lb., Single Bots. 11d. lb.; Detached Cryst. 1 lb. @ 1/1 lb.; Crude Black, 45 Gall. Casks @ 10d. gall.; 1 Gall. Tins @ 1/5 eacb.
„ Dietbylbarbituric, 16 oz. @ 34/- lb.; 1 oz. @ 2/6 oz.
* „ Hydrobrom., dil. B.P., 6 lbs. @ 6d. lb.
„ Oxalic Cryst., 5 cwt. @ 3¾d. lb.; 1 cwt. @ 3¾d. lb.; 14 lbs. @ 3¾d. lb.
* „ Pbosph. Dil., B.P., 8 lbs. @ 4½d. lb.
„ Salicyl. pulv., 7 lbs. @ 1/1 lb.; phys. pure, 1 lb. @ 3/- lb.
* „ Sulph. Aromat., B.P., 5 lbs. @ 3/8 lb
„ Tart., cryst. or pulv., B.P. 1885, 1 cwt. @ 9¾d. lb.; 7 lbs. @ 10¾d. lb.; parv. ½d. lb. extra.
Adeps Benz., B.P., 28 lbs. @ 9¾d. lb.; 7 lbs. @ 10¾d. lb,
* Liq. Hamamelidis P.B., 6 lbs. @ 1/- lb.
Morphinæ Acet. Hydrocblor. or Sulpb., Pulv. B.P., 25 oz. @ 7/11 oz.; 16 oz. @ 8/1 oz.; 8 oz. @ 8/2 oz.; 1 oz. @ 8/6 oz.; Pur. Præcip., Bimeconate or Tart., 1 oz @ 11/- oz.
Naphthaline, Candles or Balls, 1 cwt. @12/- cwt.; 56 lbs. @ 14/- cwt.; 28 lbs. @ 15/6 cwt.
Ol. Cocoa Nucis, finest White, 80 lbs. @ 54/- cwt.; 40 lbs. @ 6½d. lb.
Ol. Menth. Pip. English, 5 lbs. @ 27/- lb.; 1 lb. @ 29/- lb.; Hotchkiss original bots., 21 oz. eacb @ 11/- lb; 6 bots. @ 10/9 lb.; 18 bots. @ 10/6 lb.; American, 20 lbs. @ 8/6 lb.; 4½ lbs. @ 8/9 lb.; 1 lb @ 9/- lb.; Japanese, 60 lbs. @ 5/9 lb.; 5 lbs. @ 6/3 lb.
Ol. Morrhuæ, Nov. 1909, finest non-freezing, 25 gall. tin-lined barrels @ 95/- per barrel; 2 gall. tins @ 8/6 each.
Ol. Myrbane, 1 cwt. @ 48/- cwt.; 9 lbs. @ 6½d. lb.
Ol. Nucis, Pallid, 45 galls. @ 3/8 gall.; 2 gall. tins @ 4/6 gall.
Ol. Olivæ P.B., good yellow, 45 gall. Barrel @ 4/3 gall.; 2 galls. @ 5/3 gall.
Ol. Origani Rub., Coml., 28 lbs. @ 1/5 lb.; 9 lbs. @ 1/7 lb.
Ol. Peach Kernel (so-called), 1 cwt. @ 10d. lb.; 56 lbs. @ 10½d. lb.; 9 lbs. @ 1/- lb. [lb.
Ol. Pulegii, B.P., 5 lbs. @ 5/6 lb.; 1 lb. @ 6/-
Potass. Cyanidum 98%, 1 cwt. @ 11½d. lb.; 7 lbs. @ 1/2 lb.
Potass. Iod. P.B., 1 cwt. @ 7/9 lb.; 14 lbs. @ 7/10 lb.; 3 lbs. @ 7/11 lb. [lb.
Quassia Chips, 1 cwt. @ 12/6 cwt.; 28 lbs. @ 2d.
Shellac (Orange), 1½ cwt. @ 72/- cwt.; 7 lbs. @ 10d. lb.
Soda Cit., B.P., 3 lbs. @ 1/10 lb.
Soda Salicyl. Pulv., 7 lbs. @ 1/5 lb.; pbys. pur, 28 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.
Soda Sulphocarbolas B.P., 7 lbs. @ 10½d. lb.; 1 lb. @ 1/1 lb.
Sodii Bromid, P.B., 1 cwt. @ 1/0½ lb.; 7 lbs. @ 1/2 lb.
Soda Hyposulphite, pea cryst., 1 cwt. @ 8/6 cwt.
*Spt. Æther Nit. P.B., 4½ lbs. @ 3/6 lb., 1 lb. @ 3/9 lb.
*Sp. Ammon. Aromat. P.B., 5 lbs. @ 2/8½ lb.
*Spt. Cbloroformi, P.B., 5 lbs. @ 3/7 lb.
Strycbnina cryst, B.P., 25 ozs. @ 2/- oz.; 1 oz. @ 2/3 oz.; Hydrochlor. and Sulpbate, 2d. oz. less.
Sugar of Milk, B.P., 1 cwt. @ 44/- cwt.; 7 lbs. @ 6d. lb.
Sulphonal P.B., 1 lb. @ 9/6 lb.
*Syr. Aurant. P.B., 7 lbs. @ 9d. lb,
*Syr. Easton B.P., 7 lbs. @ 1/- lb.
* „ Ferri Iodid. P.B., 7 lbs. @ 1/1 lb.
* „ Ferri Phosphat. Co., 7 lbs. @ 5d. lb.
* „ Hypopbosph. Co. B.P.C., 7 lbs. @ 9d. lb.
*Syr. Pruni Virg. B.P., 8 lbs. @ 7d. lb.
* „ Rbamni, 7 lbs. @ 10d. lb.
* „ Rhei P.B., 7 lbs. @ 7½d. lb.
* „ Scillæ P.B., 7 lbs. @ 4½d. lb.

TWO GUINEAS & ONE GUINEA.

Reward will be paid as **First** and **Second** Prizes to any Chemist or Chemist's Assistant in Business who furnishes the best **workable** and **businesslike suggestion** for any Improvement **capable of adoption in our Weekly Advertisement in this Paper.** All Competitors must bear in mind the lines upon which the Business has been so successfully built up: viz., Cash with Order. Competitors should state their full Name, Address and Occupation, and whether they desire their name to appear in our Advertisement in the event of their being successful. The Competition will close on the 11th of June, 1910, so as to enable our Friends resident abroad to compete.

Adeps Lanæ B.P., Anbydrous, 2 cwt. @ 52/6 cwt.; Hydrous @ 49/- cwt; 1 cwt. @ 2/- cwt.; 28 lbs. @ 5/- cwt.; 14 lbs. @ 8/- cwt.; 7 lbs. @ 12/- cwt. extra.
Aloin, B.P., 1 lb. @ 3/9 lb.
Ammon. Benz., 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
Ammon. Brom., P.B., 1 cwt. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.
Bismuth, P.B. Carb., 28 lbs. @ 7/6 lb.; 14 lbs. @ 7/9 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.
Camphor, English Flowers, "not artificial," 5 lbs. @ 1/10 lb.; ½ oz. 7 lbs. @ 1/11 lb.; ½ oz. 7 lbs. @ 2/3½ lb. Crude, good white about 92% as imported, 140 lbs. @ 1/4 lb.; 10 lbs. @ 1/5 lb.
Ess. Bergam. (Oil), 12 lbs. @ 14/- lb.; 1 lb. @ 15/6 lb., not guaranteed absolutely pure.
Ess. Limonis (oil) original coppers, 12 lbs. @ 3/- lb.; 6 1-lb. bots. @ 3/6 lb., not guaranteed absolutely pure.
*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 1/6 lb.; Bergamot, 2/6 lb.
*Ess. Pineapple, 5 lbs. @ 3/4 lb.
* „ Raspberry, 5 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.
* „ Vanilla Beans, 5 lbs. @ 4/4 lb.; 1 lb. @ 4/7 lb.
Insect Powder, Opt., Englisb grd., closed flowers, 28 lbs. @ 2/- lb.; 7 lbs. @ 2/1 lb. Englisb ground, ½ closed Flowers, 6d. per lb. less. Foreign grd., 1 cwt. @ 80/- cwt; 28 lbs. @ 9d. lb.
Ol. Ricini Alb. Opt. Medicinal, 176 lbs. @ 38/6 cwt.; 88 lb. @ 41/- cwt.; 44 lbs. @ 42/6 cwt.; 9 lbs. @ 6d. lb.; for export, 1 cwt. drums recommended, 8/6 eacb extra or 3½ cwt. barrels @ cwt.
Papain 1-80, 1 lb. @ 21/- lb.; 1 oz. @ 1/7 oz.
Paraffinum Durum B.P., 2 cwt. @ 3½d. lb.; 1 cwt. @ 3¾d. lb.; 56 lbs. @ 4d. lb.; 7 lbs. @ 5d. lb.; Molle Flav. B.P., 3½ cwt. @ 16/6 cwt.; 1 cwt. @ 25/- cwt.; 28 lbs. @ 3½d. lb.; 7 lbs. @ 4d. lb.; Alb. B.P. 3½ cwt. @ 55/- cwt.; 28 lbs. @ 7d. lb.
Paraldehyde, B.P., 7 lbs. @ 1/10 lb.; 1 lb. @ 2/- lb.
Pepsin, B.P., 10 lbs. @ 8/10 lb.; 1 lb. @ 9/6 lb.
Phenacetin, P.B., pulv., 1 cwt. @ 2/8 lb.; 7 lbs. @ 2/10 lb.; 1 lb. @ 3/- lb. [lb.
Phenazone, P.B., 7 lbs. @ 6/11 lb.; 1 lb. @ 7/6
Pbenolpbthalein, 7 lbs. @ 8/6; 1 lb. @ 9/- lb.
Pix. Burgund. Druggists' 1½ cwt. @ 22/6 cwt.; 7 lbs. @ 4d. lb.
Plumbi Acetas, Druggists', 1 cwt. @ 32/6 cwt.; 7 lbs. @ 4½d. lb.; Powder, 1d. lb. extra.
Potassa Caustica Sticks, P.B., 28 lbs. @ 10d. lb.; 6 1-lb. Bots. @ 11d. lb.
Potas. Acetas. Gran. P.B., 28 lbs. @ 1/- lb.; 7 lbs. @ 1/1 lb.
Potas. Bicarb. pulv., 1 cwt. @ 32/6 cwt.; 7 lbs. @ 4d. lb.
Potas. Brom. P.B., 1 cwt. @ 11d. lb.; 28 lbs. @ 11½d. lb.; 7 lbs. @ 1/- lb.
Potas. Chlor. Pulv., 1 cwt. @ 4d. lb.; 7 lbs. @ 5d. lb.
Potass. Cit., B.P., 7 lbs. @ 1/6 lb.
*Syr. Sennæ P.B., 7 lbs. @ 8d. lb.
* „ Tolut. P.B., 7 lbs. @ 7d. lb.
Thymol, 7 lbs. @ 6/6 lb.; 1 lb. @ 6/10 lb.
*Tinct. Aurantii Recens, B.P., 5 lbs. @ 3/6 lb.; Bond, 8½d.
*Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; Bond, 6½d.
*Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/5 lb.; Bond, 8½d.
*Tinct. Campb. Comp., P.B., 5 lbs. @ 2/5 lb.; Bond, 6¾d.
*Tinct. Cantbaridis, P.B., 5 lbs. @ 3/9 lb.; Bond, 6d. lb.
*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb.
*Tinct. Card. Comp., P.B., 5 lbs. @ 2/6 lb.; bond, 6½d. lb.
*Tinct. Catechu, P.B., 5 lbs. @ 2/8 lb.; bond, 6¾d. lb.
*Tinct. Chlorof. c. Morph. Comp., B.P., 1885, 5 lbs. @ 1/11 lb.; bond, 1/5½ lb.
*Tinct. Cincbon. Comp., B.P., 5 lbs. @ 3/5 lb.; bond, 10½d. lb.
*Tinct. Cincbon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb.
*Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6½d. lb.
Ung. Acid. Boric. P.B., 28 lbs. @ 6d. lb.; Flav. 28 lbs. @ 4½d. lb.
„ Zinci Oxid. Benz. B.P., 28 lbs. @ 9d. lb.
Wax, Japan, 2 cwt. @ 48/- cwt.; 7 lbs. @ 7d. lb.

*Minimum quantity at these prices, Home Trade, 3 Winchester Quarts assorted. Export, 12 Winchester Quarts assorted.

NOTE.—Only Terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

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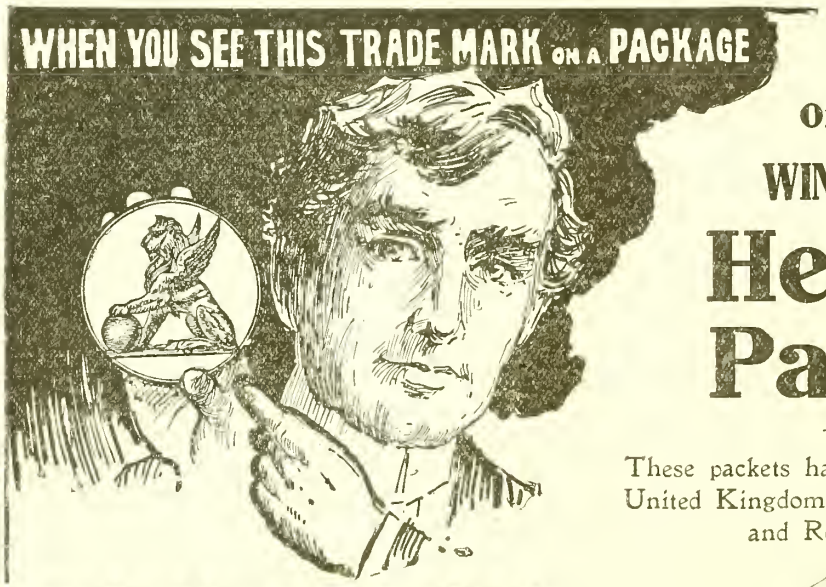

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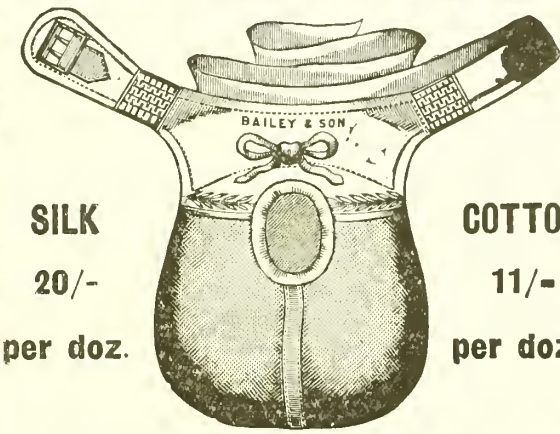

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Assorted—A, small; B, medium; C, large bags.

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Tin Closed, with Lever Lid Off.

In Patent Air-tight Lever Lid Tins.

4 oz. ... **3/-** per doz.
6 doz.... **2/9** ,,

8 oz. ... **4/9** ,,
6 doz.... **4/6** ,,

Special Quotations for quantities.

Tin Open, with Lever Lid Off and Inner Disc Cut Open.

This is the **only** Tin that will keep the contents in good condition from season to season; indispensable for Export. The Tin is filled from the bottom and closed, and until cut open by the consumer is absolutely air-tight.

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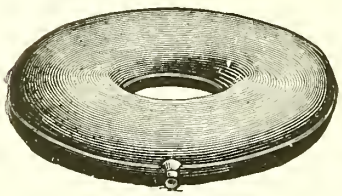

Fig. 1194.

NOTE THE LOW PRICES

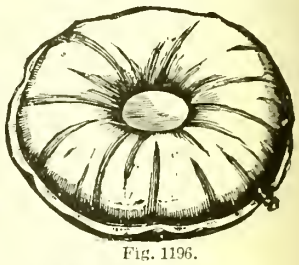

Fig. 1196.

	DIA.	12	13	14	15	16	17	18	20
Fig. 1194.—Red Rubber circular Cushion, each	...	5 0	5 6	6 0	6 6	7 0	7 9	8 9	11 0
Grey ,, ,, ,, ,,	...	4 6	5 0	5 6	6 0	6 6	7 0	8 0	10 0
958.—Drab proof ,, ,, ,,	...	4 6	5 0	5 6	6 0	6 6	7 0	7 6	9 0
1351.—Sateen ,, ,, ,, ,,	...	5 0	5 6	6 0	6 6	7 3	8 0	9 0	11 0
1196.—Drab proof circular Pillow ,,	...	3 6	4 0	4 6	4 10	5 3	5 9	6 3	7 6
1350.—Sateen ,, ,, ,, ,,	...	3 9	4 3	4 9	5 3	6 0	6 9	7 6	9 0
1353.—Red rubber square Cushion ,,	...	...	...	8 6	9 6	10 6	12 0	13 6	16 6

NOTE.—Owing to the recent enormous rise in the price of raw rubber, we are compelled to add an advance of **10** % on above prices.

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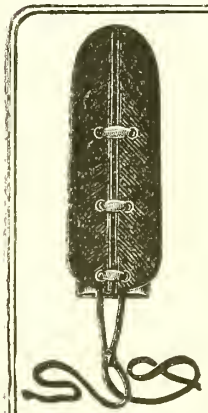

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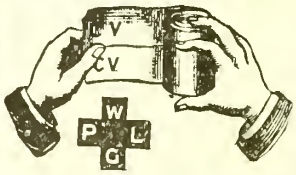

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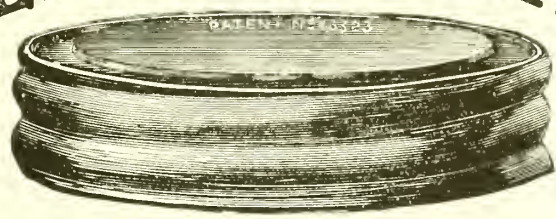

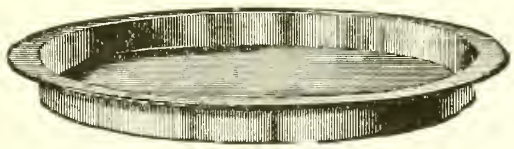

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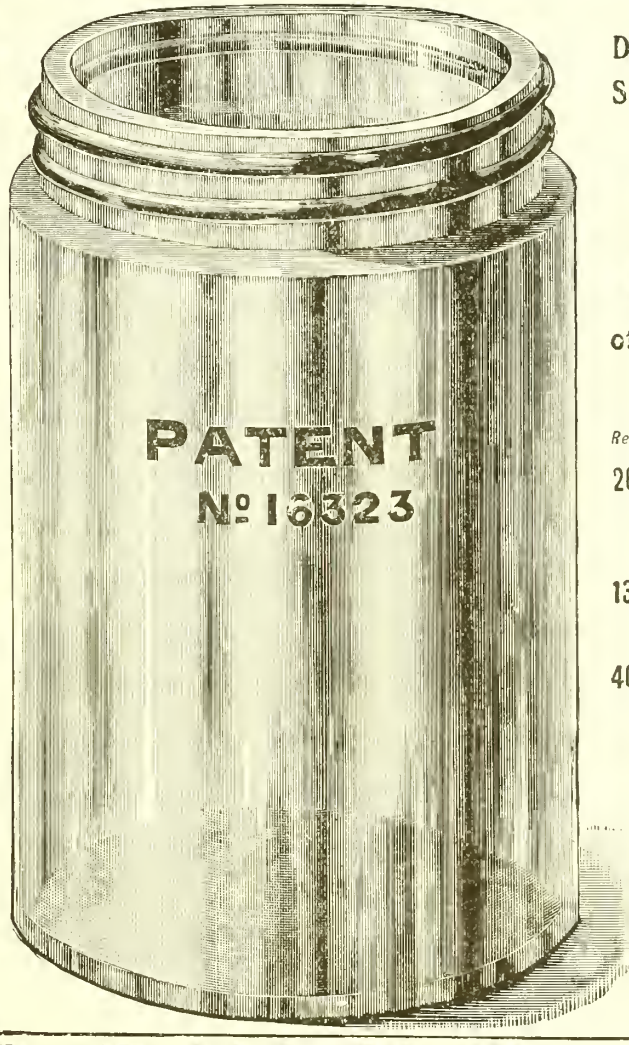

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DISPENSING.
Fig. 1273.

OVAL.
Fig. 1274.

DIRECT SQUARE.
Fig. 1275.

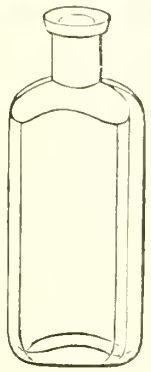
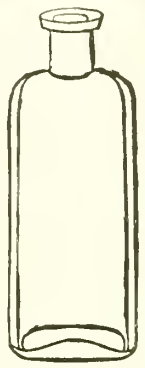


Fig. 1276.



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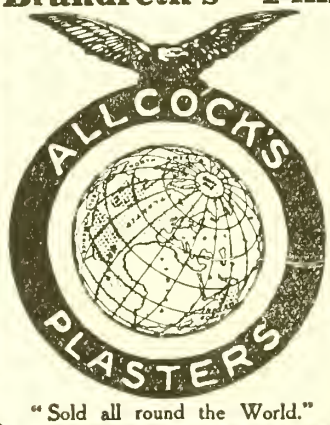

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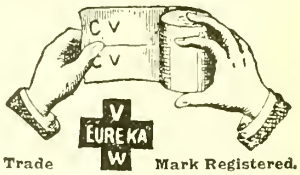

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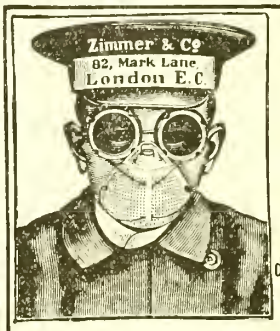

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[See p. 147, C. & D., April 24, 1909.

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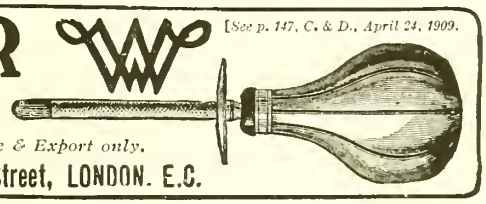

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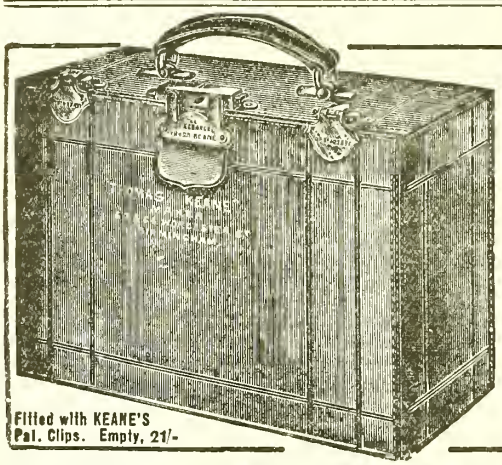

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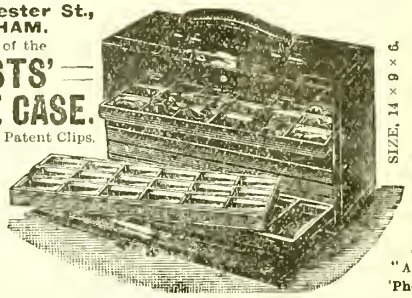

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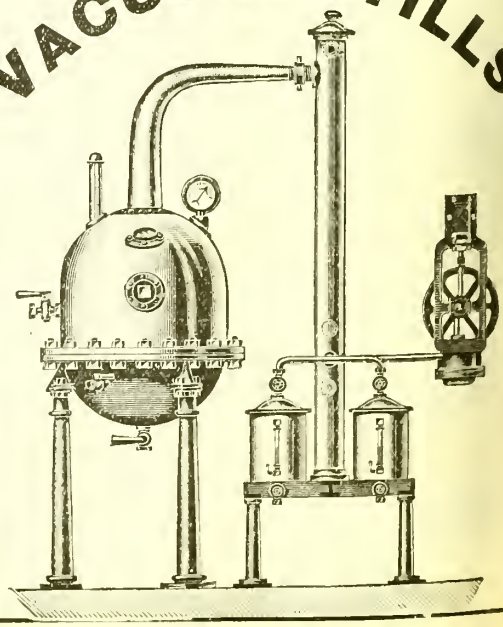

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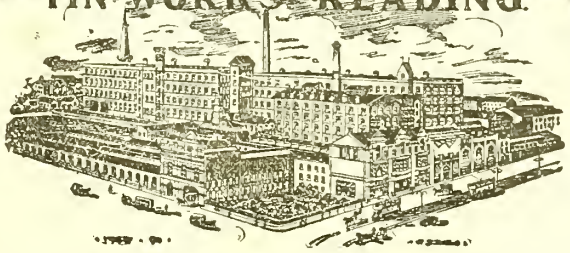

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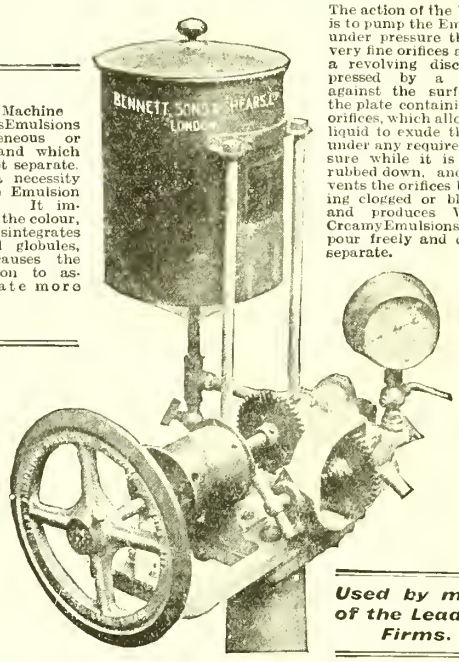

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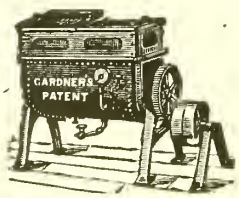

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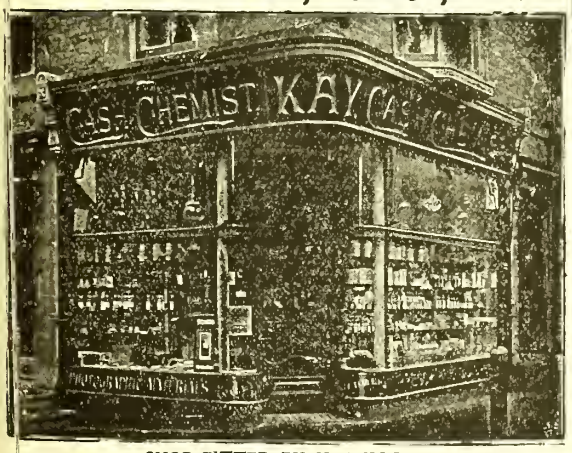

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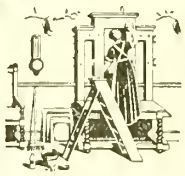
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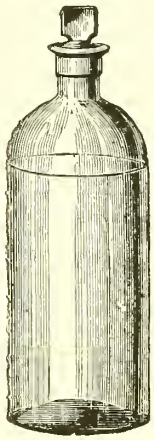

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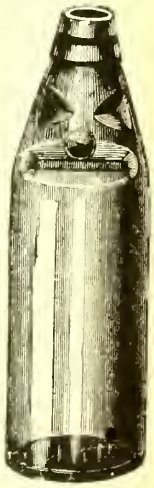

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THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C SATURDAY, MAY 28, 1910.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID (except in the case of serial advertisers)** and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules.

Telephone: No. 852 Bank (two lines). Telegraphic Address: "Chemicus London."

It pays to pay for advertising in this Supplement.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—NDON (Northern Suburb).—Death vacancy; established Busin ; Retail, Dispensing, and Photographic; returns between £550 l £600; scope for development; immediate sale necessary; valua a of stock and fixtures will be accepted.

2.—NDON, N.W. (Good-class Suburb).—Family, Retail, and Dispensi with excellent sale for Mineral-waters; returns between £1,750 nd £1,800 per annum; *profits above the average* of retail trade bout 7,000 Prescriptions annually; nicely fitted shop, fully stocke further details on application.

3.—NDON BRIDGE STATION (Few Miles out).—Retail and Dispe ng; all good middle-class trading; excellent position; return between £950 and £1,000 per annum; *net income* £259; moder tted shop; capital residence; 21 years' lease; price £750.

4.—NKS OF THE UPPER THAMES (First-rate Locality).—Retail ispensing, and Photographic; returns about £700; all profitable b ness; fittings good and attractive; very convenient house, held o ease; terms £50 and valuation of stock and fixtures.

5.—VTORIA STATION (within easy distance of).—Lock-up Pharm y; situate in busy thoroughfare; returns £650; scope for extens ; handsome Pharmacy; rent moderate; about the value of sto and fixtures will be accepted.

6.—RWOOD.—Light Retail, Dispensing, and Photographic; establi d 1841; returns £600, at fair prices; 6-roomed house; rent £36; t ffect an early transfer £300 will be accepted.

7.—SIDE RESORT (South of England). — Retail, Prescribing, a Dispensing Business for immediate Sale for valuation of stock d fixtures (about £400); returns £890; *net profit* £220; 8 room house; held on lease.

8.—KENT.—Good-class Business; Retail, Dispensing, and Photographic; position good; returns £947, increasing; *net profit* £224; lock-up shop; long lease; price £650.

9.—EASTERN COUNTY. — Mixed Business, with Post Office attached; returns over £700 per annum; net income £250; rent £25; comfortable residence; price about £450.

10.—SOMERSET.—Old-established Business; situate in a small thriving town; returns £700 per annum; scope for development; *net profit* £200; excellent house, small garden; no serious opposition; price £500.

11.—SOUTH OF ENGLAND.—Very old-established Business, chiefly ready money; returns last year £333, at good prices; vendor retiring; good opening for young energetic man; terms, valuation of stock and fixtures.

12.—SUSSEX (Health Resort).—Dispensing, Prescribing, and Dentistry, with excellent sale for own Proprietaries; returns last year, £969; *net profit* £414; books open to inspection; price required £800.

13. — WORCS. — Good-class Retail and Dispensing Business, with Photo, Sundries, and Optical; returns between £1,050 and £1,100 per annum; *gross profit* £450; price £700, or valuation terms entertained.

14.—SUFFOLK (Agricultural Town).—Good country Business, including Optics; returns average £887, at fair prices; rent £65; comfortable house and garden; terms, valuation and small sum for goodwill.

Particulars of any of the above will be furnished on application.

N.B. NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

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Telegrams, "Brett Leicester." Telephone 160 Y.

F. J. BRETT, M.P.S., gives personal attention to all VALUATIONS. An experience of over thirty years is at your disposal.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a Purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

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£1,800 RETURNS.—Good-class Light Retail, Dispensing, etc., in prominent position of large Devonshire town; returns could be largely increased by addition of Photo goods; vendor will accept valuation of stock and fixtures, about £1,000 to £1,100.

£950 RETURNS.—KENT.—Light Retail, with fair Dispensing; handsomely fitted shop; price £650, or valuation of stock and fixtures.

£500 RETURNS.—MIDDLESEX.—An unusually profitable Retail of medium class, with good prospects of considerable increase by young energetic man; net profit £200; as vendor is in poor health he will accept £200, much less than value of stock and fixtures.

£1,100 RETURNS. — LANCASHIRE. — General, Light Retail, Photo, etc.; rent £45; fair house; price about £550, or valuation of stock and fixtures.

£600 RETURNS.—HULL.—Good-class Light Retail on old lines; capable of great increase; shop good and handsomely fitted; price £400, or valuation of stock and fixtures.

£700 RETURNS.—ON THE THAMES.—Well fitted and stocked Pharmacy, doing a nice-class trade and capable of increase; price £550.

£750 RETURNS.—GLOUCESTERSHIRE.—A really good little Retail that is sure to grow; good house; long lease; price £550.

£900 RETURNS.—SUFFOLK.—Good Family Retail, with valuable Proprietaries; stocked by wholesale houses; sole cause of selling, ill-health; good locality; price about £750.

£750 RETURNS.—SOUTH WALES.—Light Retail, Prescribing, etc., in busy part; energetic man could vastly increase; price £500.

£600 RETURNS.—Has done £1,000 under personal attention; handsomely fitted shop in good-class suburb of large Midland town; well suited for young energetic man used to good trade; price about £450, or valuation.

SEVERAL small Businesses in various parts requiring capital of £100 to £250.

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Recommended by—MESSRS. BARRON, HARVEYS & MESSRS. MEGGESON & CO.
Telephone: No. 27 Victoria MESSRS. BARCLAY & SON, LTD.

IN the very centre of the fashionable part of a South Coast residential town, a very handsomely fitted corner Pharmacy and 7-roomed house, at rent £66; returns annually increasing, nearly £900; no Dentistry or Photography; vendor must sell and will take £400, which is less than value of stock and fixtures.

KENT.—Central position, large town; returns £950; net profit £224; lease 18 years at £105; modern front; handsomely fitted, stocked; good-class Retail, Dispensing, and Photography; price, value of stock and fixtures; not exceeding £650.

NORTHERN CITY.—Best and central position for country Agricultural trade; large shop and windows; good warehouse; station and cattle-market and principal hotel and post-office; £70; let off £20; can let more; vendor leaving the trade will £450; stock and fixtures are worth from £550 to £600.

LONDON SUBURB.—Well-fitted modern shop, with good house and garden, in fast-growing neighbourhood; net profit now £; returns over £700 at good prices; price £480.

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FREDK. WM. SMITH,

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MESSRS. BERDOE & FISH,

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following Businesses for Disposal. (No charge to Purchasers.)

1.—SOUTH COAST.—High-class Dispensing and Retail Business; neglected through ill-health; returns £1,230; excellent prices; very best position; plenty of scope; owner retiring; price £950.

2.—SUFFOLK.—Good-class Light Country Retail Business, with valuable Specialities, in good market town; returns £900; net profit £270; scope for increase; splendid house and garden; price about £800, or small goodwill and valuation.

3.—HAMPSHIRE.—Light Family Retail Business in good-class growing district; returns nearly £700; no side-lines; plenty of scope; net profit £220; good house and shop; price £440.

4.—SURREY.—Good-class Light Retail Business; in growing residential town; returns £550; no heavy trade; net profit over £200; good house and garden; charming locality; price £400.

5.—LONDON, S.W.—Good-class Store Business; returns over £2,000; fine corner position; price £900 or valuation.

6.—LONDON, N.—Very profitable suburban Retail; returns £650; net profit £279; price £475; part can remain.

7.—KENT COAST.—Good-class Retail, Dispensing, and Prescribing Business, in splendid position; returns £950, increasing; modern-fitted shop, fully stocked; unlimited scope; price £7[illegible] or offer.

8.—LANCS. COAST.—High-class Retail and Dispensing Business at full prices; net profit £400; splendid position; price £1,000.

9.—LIVERPOOL.—Light Retail and Dispensing; returns [illegible]0; net profit £200 to £220; excellent house; price £400, or valuation.

10.—NOTTS.—Light Cash Retail; returns £600; net profits [illegible]0; good prospects; large shop and house; price £260 or valuation.

11.—SOMERSET (Coast).—Good-class Retail; in splendid position; returns £600; can easily do £1,000; attractive shop; well fitted and stocked; price £50 and valuation; in all about £50[illegible]

12.—WEST LONDON.—Good-class Retail and Dispensing, [illegible] position; returns about £1,000; attractive shop; good house; [illegible] £750, or £50 and valuation.

13.—LONDON, S.E.—Good-class Retail and Dispensing; rent [illegible] £600; net profit £190; low rent; price £280, about valuation.

STOCKTAKINGS. SPECIAL NOTICE.

Below are some reasons why you should have a yearly Stocktaking:

1. You know the exact profit made, which is so important in arriving at the value of a business.
2. You know whether you are overstocked and where you can reduce.
3. You know if you are fully insured against Fire and with our book you can make an indisputable claim.
4. In the event of your wishing to sell, you know the exact value of your business, which would save disappointment to either vendor or purchaser.
5. In the case of branch shops it is an absolute necessity, if they are to be carried on with success.

MESSRS. BERDOE & FISH invite Chemists to write for their new and special terms for Stocktaking, which have been **Revised and include a Scheme** whereby no one need go without this necessary and all important work being done.

40 YEARS' PRACTICAL EXPERIENCE. **See page 132, "C. & D. Diary," 1910.**

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COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touchwith likely buyers either at home or in the Colonies.

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

BATHEASTON (near Bath).—Good-class Business for Sale; stock and fixtures worth £175; will accept first offer of £150; must sell; satisfactory reasons; no opposition; house and garden; rent £18, on lease, or would sell property; good opening for Dentistry. Sampson, Cleveland Pharmacy, Bath.

CHELTENHAM (Health Resort and Educational Town).—For Disposal, good-class Light Retail, Proprietaries, Dispensing, and Photographic Business; central position; modern mahogany mirror fittings; York glass recessed labelled bottles; gas, electric light; good house, perfect sanitation; private door; capital required about £750; lease; wishes to retire from Chemist business. Apply, Arthur Hill, Chemist and Dentist, 98 High Street, Cheltenham.

LIVERPOOL.—Large and commodious Shop in leading North End thoroughfare; established 15 years; Prescribing, Photographic, and own Specialities; very profitable; returns £700 per annum; low rental, £26 per annum; capable of extension. Further particulars from "A. B. C.," c/o Messrs. Evans Sons Lescher & Webb Ltd., 56 Hanover Street, Liverpool.

LONDON (Eastern Suburb).—Old-established Family Business, well located, in commanding position; comfortable house; low rent; returns about £800 (has done £1,000); good opening for Optics; few patents; will accept £375, £200 down, balance by instalments. 50/93, Office of this Paper.

LONDON, E.—Small Drug-store in thickly populated district; very profitable, cheap Prescribing; no Patents; owner must sell owing to having other business to attend to; will accept £15 cash; a genuine bargain. 50/39, Office of this Paper.

LONDON, E.—An exceptional opportunity to acquire a genuine concern at a reasonable figure; net profits average over £300 a year and in the hands of an energetic man returns could be increased; position good; rent moderate; satisfactory reasons for disposal; part purchase money might remain. Apply, 53/40, Office of this Paper.

LONDON, N.—Cash Prescribing and Dispensing Business, doing between £600 and £700 a year under management; thoroughly sound; capable of big increase, and trial given to genuine buyer with references; big opening for Dentistry; no reasonable offer refused. Apply, "N. Y. Z." (51/9), Office of this Paper.

LONDON, S.E.—For immediate Disposal, a well stocked and fitted shop in thickly populated district; main road; tremendous scope; low figure would be accepted to immediate purchaser; cash required about £150; good house attached. Full particulars, 2 The Parade, Coldharbour Lane, S.E.

LONDON, S.W. — Drug-store in large working-class neighbourhood; no immediate opposition; returns last year under unqualified management £330; has done more; profitable, Drugs and Prescribing; very few Patents; established over 20 years; price £90. Apply 54/24, Office of this Paper.

LONDON, W.—Nicely-fitted modern lock-up Pharmacy; in good thoroughfare of pleasant residential suburb; Photo, Dispensing, Optics; excellent opening for Dentistry; returns last year £865; rent £45; net profit £235; every investigation invited; books fully kept; will sell to first reasonable purchaser for cash. 54/4, Office of this Paper.

LONDON, W.—A genuine Business for Disposal in busy main thoroughfare; returning £50 per month (average); great scope for increase under personal supervision; reasons for disposal owner devoting his time to Dentistry; rent only £55; good house; shop nicely fitted and well stocked; cash price £275. 54/13, Office of this Paper.

LONDON.—An old-established Business, in a district frequented by foreigners, for Sale; returning £950; can be much increased by an up-to-date man. "Rotary" (54/17), Office of this Paper.

MANCHESTER.—For Sale, at once, well-established Shop in main street of city; good stand; good Dental practice; house and every convenience; little or no opposition; for cash low price; quick sale; retiring from trade. 52/1, Office of this Paper.

MIDDLESEX.—Must be Sold, proprietor having other appointments, double-fronted shop; private entrance; good house; good garden; low rent (£36); best position; 12,000 population; minimum opposition; yearly profits £200; splendid opening for Dentistry and Optics; first reasonable offer accepted. 101 St. Mark's Road, Bush Hill Park, Enfield.

PROVINCIAL Suburb. — Genuine Business; rapidly increasing middle-class neighbourhood; exceptional profits, as takings are mainly own Specialities and Drugs; expenses only 23s. weekly; good house; unique position; good opening for Optics and Dentistry; price £400, or valuation. Apply, 49/6, Office of this Paper.

SOUTH COAST.—Last 3 years' returns average £875, previously over £1,000; neglected through illness; under management 25 years; pleasant position; well fitted and stocked; convenient six-roomed house, now let-off at £40; lease 11 years to run, £86; rates £25; Prescriptions about 1,400 a year, remainder Sundries and very profitable Proprietaries, except 20 per cent. Patents; net profit at least £250; price £550; no reduction; principals only. "Aspirin," Fairview, Harcourt Road, Alexandra Park, N.

SOUTH WALES.—In a populous Colliery district (population increasing fast); a good Retail, Dispensing, and Prescribing Business; no opposition; returns over £800; Optics could be added with advantage; a grand opportunity for an energetic, up-to-date Pharmacist; proprietor retiring; price £500. "Vindig" (49/20), Office of this Paper.

WEST OF ENGLAND.—Residential neighbourhood, rapidly increasing; ready-money Business, without Dentistry, Photographic, or Optics; excellent Proprietaries, Prescribing, Dispensing, and Retail; beautiful house, dining, drawing, and bed rooms; handsome large shop, walled-in garden, Drug-room, large stock; rent £32 10s.; first offer over £400 accepted; two undeniable reasons for disposal; lease. "Senex" (51/33), Office of this Paper.

WORCESTERSHIRE.—For immediate Disposal; owner ordered abroad through serious illness; old-established Light Country Retail Business in small market town; charming locality; very convenient house; low rent; double-fronted shop; good position; price only £175 or valuation; exceptional chance for an energetic man. "Urgent" (54/8), Office of this Paper.

CHEMIST; fashionable suburb of Liverpool; Cheshire side of Mersey; established 35 years; modern house; every convenience; low rent; rising neighbourhood; vendor's ill-health cause for selling; every investigation quoted, in confidence, from John Brown & Co., 34 South John Street, Liverpool.

GOOD-CLASS Family Retail in residential village near Liverpool; unopposed; returns about £1,000; net profits £240; price £450; good house, large garden and warehouse; rent £21; every investigation offered; sound concern. Apply, "Genuine," John Thompson, Ltd., 58 Hanover Street, Liverpool.

OLD-ESTABLISHED profitable Business in pretty residential Surrey suburb; returns £600; side entrance; good garden; rent only £36. "Aqua" (53/36), Office of this Paper.

TO be Sold, the late Dr. Finegan's Medical Hall, 32 Thomas Street, Dublin; fitted at a cost of £500. Appy to Andrew J. Keogh, Auctioneer, 10 Lower Ormond Quay, Dublin.

UNOPPOSED Mixed Country Business; house, 5 rooms, cellar, fruit garden, side entrance, yard, warehouse; shop, long, well stocked; opening Dentistry, Photography; worked single-handed, unqualified; do very much better qualified; takings £428; total expenses £305, includes taxes, rates, and rent £20; optional lease; wanted £210; liberal discount quick cash sale. Apply, particulars, reason sale, N. W. Wood, Lauriston, Bushey Grange Road, Watford.

£60 or close offer (all at); Drug Stores; S.E. London; populous neighbourhood; no opposition; house and shop 15s. 6d. per week; increasing business; has done £5 weekly; must sell; every inquiry invited; genuine. Letters only, "Paregoric," 28 Villa Street, Walworth, S.E.

£100. — Unopposed Mixed Country Drug-stores; Stationery, Optics; Extractor could make money; good house; rent £25; easily worked; expenses low; Eastern county; established 10 years. For further particulars apply 52/20, Office of this Paper.

£175 will purchase genuine, old-established Chemist's Business in a growing town within 20 miles of London. Apply, 50/38, Office of this Paper.

£275.—For immediate Disposal, a good medium-class Dispensing and Retail Business, in pleasant residential district of North London; returns about £700; net profit £170; good lease; corner shop, well fitted and stocked; nice house, with side entrance; no immediate opposition. 54/24, Office of this Paper.

SALES BY AUCTION.

WAREHOUSE OR FACTORY, AT THE LOW UPSET PRICE OF £750.

FIELD, SONS & GLASIER will SELL by AUCTION, at the Mart, E.C., on MONDAY, MAY 30, 1910, at 2, the leasehold commanding Mercantile Premises, 42 Southwark Street, S.E., close to London, Southwark, and Blackfriars Bridges, and affording over 9,500 ft. floor space.

Particulars, etc., of Messrs. W. J. Fraser & Son, Solicitors, 78 Dean Street, Soho Square, W., or of the Auctioneers at their Offices, 54 Borough High Street, S.E., and 5 Waterloo Place, S.W.

TO LET.

KENSAL RISE.—Excellent Shop and House of 7 rooms and bathroom in prominent position in this well-populated district to be Let; well suited for Dispensary and Surgery; rent only £75 per annum. Full particulars from Messrs. G. Head & Co., 7 Upper Baker Street, N.W.

FOR SALE.

BEAUTIFUL set of Old Oak Fittings for Sale; a bargain; can be inspected at the showrooms of Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

ENTIRE Fixtures and Fittings in Mahogany of Branch Pharmacy fitted by Evans, Liverpool, in 1908, comprising Window-enclosure, 14 ft. Wall-case, with 60 drawers, 2 cupboards and lockers; 6-ft. 6-in. Wall-case, Fig. 19 (Evans), counters 12 ft. and 6 ft. 6 in., with glass cases in front; Perfume-case, with desk; Counter-case, Fig. 2741 (Maw); Dispensing-screen, with 3 glass cases; 145 Recess Label Shop-rounds; 15 Ointment-jars, Fig. 3A (Evans); 2 Swan-necked Carboys, etc. Moorhouse, Pharmacist, Barnsley.

FOR Sale, 120 strong, well-made Trays; duck bottom; 20¾ in. by 13½ in. by 1 in. outside; trays ¾ in. deep; suitable for drying Health Salts, Powder, etc.; little used; sample Tray sent to probable purchaser. 51/3, Office of this Paper.

FOR Sale, the Sole Right of a very fine Proprietary Article; most attractive registered name, which lends itself to a variety of articles; most suitable for a financial syndicate or chemist having a number of shops. 178/69, Office of this Paper.

PREMISES FOR SALE.

BY Order of the Mortgagee.—Four Shops; lease 10 years; net rentals £89; old-established Chemist; with possession; no opposition; a fortune to a sober man; also a Shop for a Dentist; main road; near 4 stations; price £700 or offer. J. R. Howarth, Auctioneer, 21 Penton Place, London, W.C.

BUSINESSES WANTED

ADVERTISER, coming home soon, requires Chemist's net profits not less than £400; must bear strictest tion. State price required and full particulars, in con "Africa" (41/16), Office of this Paper.

ADVERTISER requires a good-class Business with re £1,000. Full particulars, in confidence, "B. S. P Office of this Paper.

ADVERTISER requires Managership, early in autumn, to succession or Partnership; garden or lock-up "Confidence" (51/15), Office of this Paper.

MESSRS. BERDOE & FISH desire to inform intendi that they have a number of cash buyers still un desirous of purchasing Businesses returning from £800 strictest confidence can be relied upon and a speedy trans Address, 35 Jewry Street, Fenchurch Street, E.C.

WANTED, to Buy, for cash, or Manage with view t sound Business doing £600 to £700, in market tow village; convenient house required; South preferred. culars and price to "Pharmacist" (50/37), Office of this agents.

YOUNG qualified man, hard worker, would like to h gentleman willing to dispose of his Business on first payment (about £150) ready; no agents. Full pa first instance, 53/19, Office of this Paper.

AGENCIES.

A PHARMACEUTICAL Chemist, in business on own 30 years in New South Wales, is willing to recei for Specialities; the advertiser is returning to Austral is well known through Queensland, New South Wale and Tasmania. Communications to "Petersham" (50/ this Paper.

AN important German Manufacturer of Celluloid T requires an experienced Agent in that trade. Add 2866," c/o Rudolf Mosse, Leipzig, Germany.

AN established firm in the Mincing Lane district w outlet for Drugs, Seeds, Roots, Oils, and Chemic to enter into negotiation with firms desiring a London and warehouse); buying and selling on commission un Home or Export trade. 177/46, Office of this Paper.

INTRODUCTION to German Trade.—The Advert large factory and staff of accredited Representativ the whole German territory, and already selling own the leading Wholesale and Retail Chemists throughou is open to take up the entire German sale of a suit Speciality in high repute and in general demand; position is unique for distributing, and, if necessary, m the goods wholly or in part as may be desired; princi class firms desirous of large trade and willing to advertise their goods to the German market are inv municate by letter with "C. X. V.," c/o C. A. G. Bro lington Street, Strand, London, W.C.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

RETAIL.

BECKENHAM.—Junior wanted; Dispensing, Stock, and Counter; hours 9-9, Thursdays 9-2, Saturdays 9-10, every other Sunday 7-9 P.M.; outdoors. Apply, with full particulars, Lewis, 91 High Street, Beckenham.

BRIGHTON.—Wanted, qualified, energetic Assistant; good salesman, with up-to-date knowledge of Photo Apparatus, etc. Hardcastle, 71 East Street, Brighton.

CHELTENHAM.—Junior Assistant or Improver wanted immediately (indoors, one only kept), for Light Retail, Dispensing, and Photographic business; no Extracting required. In reply please state age, height, experience, reference, and salary required, with photo (if convenient), to Arthur Hill, Chemist and Dentist, 98 High Street, Cheltenham.

EAST COAST.—Qualified Senior, Extractor, smart Counterman, wanted, at once. Full particulars, salary required, and references in first letter, 49/19, Office of this Paper.

EASTBOURNE.—Qualified Locum wanted during Ju modern Counter and Store trade; no late work duty. Apply, giving full particulars, photo, and st required (outdoors), Davison & Co., Ltd., Eastbourne.

FARRINGDON General Dispensary and Lying- 17 Bartlett's Buildings, Holborn Circus, E.C. 1828.—Dispenser, lady or gentleman; vacancy having the office of Dispenser, the Commission of Manageme plication, which must be made on a form obtained fr tary, and forwarded with not more than 3 recent stating salary required, on or before June 7, to the from whom all further particulars can be obtai Melson, Secretary.

HALIFAX.—Wanted, smart Assistant; must be g dresser and Counterman; used to Store trade; Sunday duty; weekly half-holiday. Apply, with ful as to age, height, references, and salary required, and to Taylors' (Northern), Ltd., 3 Woolshops, Halifax.

ITON (Devon).—Wanted, a reliable Junior or Improver. pply, with full particulars, Herbert F. Cross, Honiton.

T.—Qualified Manager (married) required for Branch; permanency; unfurnished house. State full particulars, age, height, nce, salary required, and photo (if possible), to "Branch" Office of this Paper.

ON, W.—Improver wanted for good-class Dispensing and ht Retail business. Apply, stating age, height, previous ex- and salary required (indoors), to "Chemicus," c/o S. Lynn, Qu's Road, Bayswater, W.

ON, W.—Wanted, at once, smart, gentlemanly Manager; alified; single; accustomed to a good-class Dispensing, etail, and Photographic Business; excellent opportunity to an capable of improving and increasing turnover. Apply, particulars, to "Wulfruna" (49/36), Office of this Paper.

ON, N.—Unqualified Second Assistant, at once; Dispensing Photographic work mainly. Please write usual particulars y required, or call, Hornby, Chemist, Muswell Hill.

ON, W.C. — Outdoors; Junior Assistant required; smart terman, with good Dispensing experience. Full particulars lbot, Martin & Co., 164 Charing Cross Road.

N, W.—Part-time; smart Assistant wanted for quick Cash ; evening and one half day; hours can be arranged for man; good opportunity for student. Full particulars to Co., 88 Askew Road, Shepherd's Bush, or call before esday excepted.

N (near).—Country town; required, at once, qualified ager; good business habits; Optician preferred; permanttle, Chemist, Epsom.

N, N.E.—Junior Assistant wanted, immediately. Apply onally, or send full particulars, stating age, height, uired (outdoors), particulars of last engagement, and photo (to be returned), to Marshall & Co., 78 High Street, London, N.E.

, S.E.—Smart qualified man as Manager; outdoors; used ore trade; references must bear strictest investigation. ing full particulars as to age, height, and salary re- Milner, 209 Trafalgar Road, Greenwich.

, W.—Wanted, immediately, Junior Assistant; accus- d to West-end business; good Dispenser. Rouse & Co., e Street, W.

, N.—Manager, qualified (age 25 to 30), with house over one day off weekly; Sunday evening only. Enclose photo letters only, to Long, 15 Warwick Road, Clapton, N.E.

(Suburb).—Junior (outdoors) for quick Store trade, to up Photography and assist generally; reply, stating age, height, salary, references, etc.; also qualified irst 3 weeks August. Terms, etc., to 54/25, Office of this

STER Suburb. — Qualified Chemist wanted; duties middle-aged man not objected to; 2 afternoons per week State wages and usual particulars to 51/18, Office of

E.—Wanted, a qualified and competent Assistant, ex- ced in good-class Retail and Dispensing and seeking a Kindly give full particulars of experience, age ry required (house provided over business), married d enclose photo (returnable), to D. T. Evans, Farning- Margate.

E.—Wanted, for the summer season, 2 competent Assis- ccustomed to good-class Retail and Dispensing. Kindly t letter, details of experience, age, height, salary re- oors), when disengaged, and enclose photo (returnable), ns, Farningham Lodge, Margate.

IBE.—Wanted, an Assistant; outdoors; must be sober, and obliging, also a knowledge of Photography. State and salary, and references to late employers, also send returned), S. Parker, Chemist, Morecambe.

don.—An Assistant Extractor; permanency to suitable oderate salary. State age and salary required, with Sal" (53/38), Office of this Paper.

ENGLAND.—Qualified Assistant wanted; quick and ounterman, knowledge of Country and Farmers' trade ort hours; no Sunday duty; age not under 30. State alary required (outdoors), and particulars of previous n first letter to 179/5, Office of this Paper.

ABBOT.—Wanted, Junior Assistant (indoors), end of f-holiday weekly, no Sunday duty, for Dispensing and ht Retail. J. H. Bibbings, Pharmacist, Newton Abbot.

READING.—Wanted, immediately, qualified Assistant; one able to Dispense and serve at Counter; middle-class trade; live out. Apply, stating age and experience, to J. North, Chemist, 435 Oxford Road, Reading.

ROYAL SOUTH HANTS AND SOUTHAMPTON HOSPITAL.

QUALIFIED Dispenser (ladies eligible) required. Minor qualification necessary. Salary £60 per annum, with rooms, board, and washing. Applications, stating age, with three recent testimonials, to be sent to the undersigned before June 1.

T. A. FISHER HALL, Secretary.

May 20, 1910.

ST. GEORGE'S HOSPITAL, HYDE PARK, S.W.—Wanted, Assistant Pharmacist; must be qualified; age under 30; able to undertake usual Laboratory duties; hours 9 till 5, every third Sunday 2 to 4; no meals; salary £100 per annum, rising £5 per annum to £150; ladies ineligible. Applications, with three recent testimonials, to be sent in by June 6, addressed to the "Pharmacist," who can be seen any day between 10 and 4.

SINGAPORE.—Qualified Managing man wanted, at once; 3 years' agreement; passage paid. Apply, with full particulars, to Durant, Radford & Co., Ltd., 5/6 Billiter Avenue, London, E.C.

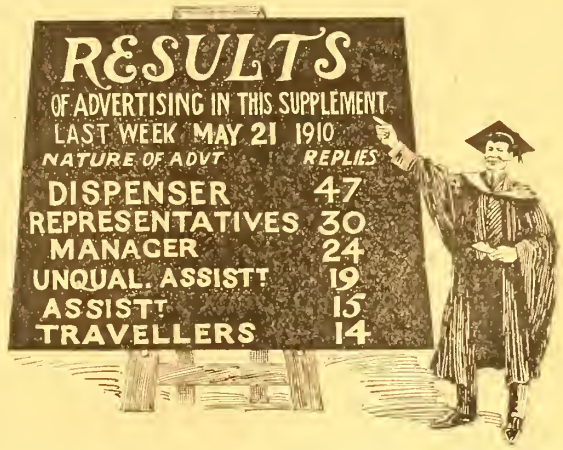
SOUTH AFRICA.—Qualified Assistants open to accept situations in South Africa should write to Lennon, Ltd., 54 Queen Elizabeth Street, London, S.E.

TEWKESBURY.—Wanted, immediately, indoor Assistant; tall and of good address; not under 20. Apply, with full particulars and salary required, to W. Jones, High Street, Tewkesbury.

TUNBRIDGE WELLS.—Qualified Manager for good-class modern Cash Business, to live on the premises; must be capable, energetic, and obliging. Send full particulars of experience, age, height, reference, and salary required, also enclose photo (returnable). H. S. Pearmund, 47 High Street, Tunbridge Wells.

TUNBRIDGE WELLS.—Qualified Assistant (indoors) for high-class Dispensing business; 2 kept. State usual particulars, salary required, and send photo, to Howard & Son, Tunbridge Wells.

WEST ENGLAND.—Wanted, smart young qualified Chemist for good General, Family, and Agricultural trade; must be single, energetic, good references; usual half-day weekly, with 14 days annual holiday; permanency; easy hours; can start at once. State salary required, age, and, if possible, photo, with references, to "Salol" (52/30), Office of this Paper.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR—millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

SITUATIONS OPEN *(continued).*

A CAPABLE qualified Assistant, of good address, wanted, at once, for Dispensing business; must have had good experience; season eagagement. T. O. Barlow, Palmerston Road, Southsea.

A JUNIOR Assistant (outdoors) wanted, at once; state age, salary wanted, and previous experience. Reply, Garnham, 18 Borough High Street.

AN indoor Assistant, accustomed to a good-class business and having a knowledge of Photography. Apply, stating age, height, salary required, experience, and enclose photo, to W. Harris Jones, Pharmaceutical Chemist, Malvern.

EVENINGS. — Competent Assistant wanted for three evenings weekly, Wednesdays, Thursdays, Saturdays, after 6 o'clock. Foster & Dallas, 1 Lavender Hill, S.W.

EXCEPTIONAL opportunity for learning French; reliable Assistant wanted to lodge (but not board) with proprietor. Apply to F. Daniel, Pharmacie Centrale, Dinard.

FOR June 2, Assistant, not under 24; indoors; abstainer; 3 kept; half-day off a week; well up in Dispensing. Full particulars as to salary, etc., and enclose photo, to Tupholme, Earl's Court, London, S.W.

JUNIOR Improver; indoors; good-class country business; time for study; half-day holiday weekly. Apply, with usual particulars as to age, height, experience, etc., with photo (if possible), to H. T. Maundrell, Milton Regis, Sittingbourne.

JUNIOR, not under 21, with good Dispensing experience, for good-class business; indoors; vacancy would suit one requiring time off for study. State full particulars to 52/22, Office of this Paper.

L. ROWLAND & CO., Chemists, Wrexham, require a qualified Manager for a Branch; salary, commission, and house (unfurnished); must be good and pushing Counterman and able to Prescribe. Apply, with full particulars, giving references, etc., to L. B. Rowland, High Street.

LADY Dispenser wanted for working-class practice, Fulham district. Apply, stating age, experience, and salary required, to 48/28, Office of this Paper.

LEWIS & BURROWS have vacancies for competent unqualified Assistants. Apply, giving full particulars, to 146 Holborn Bars, E.C.

QUALIFIED Assistant wanted with good Dispensing experience. Apply, with full particulars of age, height, salary, and previous engagements, to R. C. Harrison, Ph.C., Hindhead Pharmacy, Grayshott, Haslemere.

QUICK working-class trade, London; smart Junior or Improver required in about a month; preference given to a gentleman accustomed to similar trade; must be good worker, quick, and willing. Full particulars to S. Briggs, Chemist, 31 The Broadway, Crouch End, N.

REQUIRED, by Doctor in S.E. district, qualified lady Dispenser (outdoors); easy hours; salary £1 per week. Apply, by letter, "W. H. D.," 11 Peckham Grove, Camberwell, S.E.

SELFRIDGE & CO., LTD., require the services of an Assistant for Drug Counter; hours of business 8.45 A.M. to 7 P.M., Saturdays 2 P.M. Apply, personally, if possible, before 10 A.M. or after 5 P.M., Oxford Street, W.

STRAWSON & CO., Calne, Wilts, require a smart Junior or Improver, age about 20; must be gentlemanly, quick, and obliging; outdoors; easy hours, no Sunday duty, Wednesdays off at 1. Apply, with usual particulars, to F. Strawson, Rose Hill, Dorking.

TAYLORS' DRUG CO., LTD., have vacancies for smart young qualified Chemists (no Sunday duty). Kindly send full particulars, with photo, to the Superintendent, Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

UNQUALIFIED Assistant, at once; must be capable. State salary (outdoors), and give references, Carlton & Sons, Chemists, Horncastle.

WANTED, Manager, married, about 30 years of age; Extractor; good knowledge of Photography; outdoors; permanency. State age, height, and salary, with references and recent photo, 49/17, Office of this Paper.

WANTED, sharp Improver or Junior (outdoors), as Second ant. State height, experience, if passed Preliminary, disengaged, and salary required, Francis T. Sanders, Chemist, Surrey.

WANTED, qualified Assistant (outdoors). Apply, givin particulars as to age, height, previous engagements, and required, enclose photo, to F. A. Willcock, 71 Victoria Street, hampton.

WANTED, competent Assistant; indoors; must be good Dis Apply, with full particulars and enclosing photo, to Gre Wrenn, Chemists, Taunton.

WANTED, Junior Assistant; age 20 to 22; outdoors; quick, obliging, good character. Apply, stating age, and salary required, when disengaged, and references, to Walker, Chemist, Willenhall.

WANTED, Assistant, qualified, with ability, good app and address; splendid opening for the right man. State and particulars to 51/27, Office of this Paper.

WANTED, for Ceylon, in up-country Dispensary, young holding Minor qualification; 4 years' eagagement. particulars apply, "Chemist," c/o Walker Brothers, 36 Bas Street, E.C.

WANTED, smart qualified Assistant for quick Store chiefly Counter work; short hours. Apply, Drug Depa A. W. Gamage, Ltd., Holborn, E.C.

YOUNG married unqualified Assistant, to live over sho be good Counterman, energetic, industrious, and accus quick cash business. Give references of last two empl "Tempus" (50/30), Office of this Paper.

£130, with house and 5 per cent. commission on net qualified Manager, about 30, for quick Cash Photographic and Prescribing; one able to make sales, window-dresser essential; also energetic Junior, about 23, Cash and Photographic trade. References, with photo, usual particulars, to 49/18, Office of this Paper.

WHOLESALE.

SOUTH AFRICA. — Representative, having already stantial and allied agencies, wanted by Export knowledge of country indispensable. Apply, with full pa to 94/67, Office of this Paper.

DRUGS.—Required, by London Wholesale Manufacturi gist's house, Second hand in Pill and Tablet Departme those experienced in the various branches of this trade stating experience, salary expected, etc., to "Pill," c/o 30 Cornhill, E.C.

FRENCH Pharmacist (qualified) wanted by firm of Chemists for their Literary Department; state extent ledge of the British Pharmacopœia. Apply, with full experience, age, and salary required, to "B. P." (176/49) this Paper.

REQUIRED, at once, young German Chemist or Dru Stock and Bookkeeping; must have good experience sale and Retail and be well acquainted with foreign Pat cine. Only well-recommended gentlemen may apply, wit ticulars, to "S. M. A." (51/5), Office of this Paper.

SECRETARY; competent accounts; Company work f company; knowledge of Wholesale Chemists or Pat cine advantage; state age, references, when liberty, quired; qualification £500 essential. Address, "Sec.," c/o & Osmond, 2 Creed Lane, London, E.C.

SMART representative with good connection among men wanted by Manufacturing firm to take orders class new and easy-selling goods (Instrument line); 6 visits will bring £2 10s. to £5 commission weekly. Ap Office of this Paper.

TRAVELLERS.—Those able to sell Patent Medicine thorough, sound connection with Chemists, etc., salary, expenses, and commission; whole time wanted. past experience, when at liberty, and references, to "A Watkins & Osmond, 2 Creed Lane, London, E.C.

WA ED, qualified Chemist, thoroughly experienced in making B. Preparations, etc. Full particulars as to qualifications, perie, salary, etc., to "B. D." (178/31), Office of this Paper.

WH ESALE.—Junior Assistant wanted for Wholesale Druggists in important Colonial town; young man who has d exp ience in making Medicated Tablets of all kinds; 3 years' greem to be signed; second-class passage paid. Apply, stating perie, to "V. M. N." (54/11), Office of this Paper.

WANTED, Travellers having sound business connections with best London and Provincial Chemists; only first-class men need apply A. Stadler & Co., 16 Water Lane, E.C.

YOUNG, energetic Chemist, of good education and address, able to successfully interview Medical Men, is offered a position, with good prospects, as Representative. Give particulars of experience, salary, age, etc., to "B. C." (178/4), Office of this Paper.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid.

RETAIL.

PER NENCY; qualified; single; good varied experience; view to entual interest; any class trade; brisk business preferred. Perm ent" (49/27), Office of this Paper.

HOS TAL Locum; qualified. Irving, 32 Valnay Street, Tooting, Lo on.

ASS TANT; part time; near South London Schools. Edwards, 26 een Street, Rhyl.

QUA FIED Lady Dispenser; experienced; Locum or permanency. 49 5, Office of this Paper.

NUR -DISPENSER (Hall) seeks situation; excellent references. G sop, 329 Clapham Road, S.W.

QUA FIED Locum or Dispenser, Photography, Optics. Usher, 2 Westbourne Park Crescent, W.

SAT DAY evenings; Retail or Dispensing; 30; qualified. " gon," 60 St. Mary's Road, Peckham.

QUA FIED; tall; 24; Dispensing and Photographic; excellent r ences. 50/4, Office of this Paper.

EXP IENCED; disengaged; outdoors; London; permanency or L um. "Qualified," 32 Redburn Street, Chelsea.

QUA FIED; disengaged; good experience; Dispensing and C nter. "Aspirin," 2 Randolph Road, Maida Vale, W.

QUA FIED; 26; tall; last berth 3½ years manager; good-class b ness; disengaged. Full particulars, Salt, 29 Spring Gardens, Baxto

LOC I, Relief, or Part-time; student; 28; tall, gentlemanly; in grity and ability unquestioned. Oakley, 14 Canonbury Squar N.

ASS TANT; outdoors; 34; 5 ft. 9 in.; permanency; town or u ntry; good references. "Statim," 7 Carthew Road, Hamm smith.

MED CAL Student, married, desires Post as Dispenser with dical man; London preferred. "Emulsion" (48/11), Office of thi Paper.

MA GER; experienced; town, country; Agricultural, Dispens , and Family; qualified, registered; elderly. 48/10, Office of thi Paper.

LOC I for summer months; Minor man with good all-round ex ence and best references; tall; 25. "Minor," 32 Bedford Hill, ham, S.W.

QU IFIED; 34; good London and Continental experience; per nency required; disengaged. Apply, "Borax" (50/2), Office this Paper.

ASS TANT; 23; 7½ years' good all-round experience, Dispensing, Heato tography, etc.; outdoors. "Boracis," 12 Lesbury Road, Newcastle-on-Tyne.

JUN R; 20; Dispensing, Photography, Counter; disengaged e 21; Manchester preferred. Fulton, c/o Carter, Phar- acea al Chemist, Chester.

QUALIFIED (26), season or Locum, for June 1. Parry, Mellin's Pharmacy, Piccadilly Circus.

LOCUM; qualified; good references; disengaged 2 months. Morris, 2 Courtnell Street, Bayswater.

QUALIFIED Assistant; disengaged; manage; town. "A. E.," 70 Tyndall Road, Leyton, N.E.

LOCUM; qualified; 37; highly recommended; disengaged May 28. "G.," 47 Hugh Street, Victoria.

CERTIFICATED Lady Dispenser; disengaged; Locum or permanent. "T.," 8 Highbury Hill, N.

JUNE; disengaged; Lady Dispenser (Hall); testimonials. Apply, "Locum," 3 Queen's Square, Brighton.

UNQUALIFIED; 38; good all-round experience; outdoors; salary moderate. 58 Catherine Road, Sheffield.

UNQUALIFIED; Locum; permanency; 35; excellent references. "G.," 34 Osborne Terrace, Clapham Road.

ASSISTANT; married; unqualified; 20 years' experience; best references. Fisher, Worcester Road, Bromsgrove.

DOCTOR'S Dispenser; reliable appointment immediately; London or Counties. Mervyn Fellows, Hurst Hill, Bilston.

ASSISTANT; 27; good Counterman; experienced Dispenser; disengaged. "W. D. S.," 76 Hartington Street, Bedford.

ASSISTANT; varied experience; Extractor; unqualified; disengaged. "Bromide," 164 Saint John Street, Clerkenwell.

MANAGER, permanency, or Locum; best London and country experience; qualified. "X." (54/26), Office of this Paper.

UNQUALIFIED; 30; tall; good Dispenser, Photographic, Prescriber; energetic; exceptional experience. 53/32, Office of this Paper.

QUALIFIED, experienced gentleman (28) desires position as Manager, Senior, or Locum; London. Wilson, 17 Calverley Road, Tunbridge Wells.

CHEMIST-OPTICIAN (23) desires further Optical experience; qualified; excellent references; disengaged May 31. Bennett, 15 Tregothnon Road, Stockwell, S.W.

LOCUM; all-round experience; age 33; good references; now disengaged to June 11, and June 26 to July 10. "Pharmacist," 34A Garthorne Road, Forest Hill, S.E.

RELIEF; 54; qualified; energetic; day or week; good Counterman, Prescriber; modern trade experience; sound references. Address, "Pyro," 142 King's Cross Road, W.C.

MANAGER; qualified; mature experience; active; accustomed to good-class business; moderate salary; disengaged shortly. "B. P.," 4 Berkley Road, Regent's Park, N.W.

DISPENSER, 11 years' good experience, desires Retail experience; indoors; good country Pharmacy preferred; excellent references; abstainer. 34 Cavendish Road, Leicester.

SITUATIONS WANTED (*continued*).

QUALIFIED; 24; experienced. "L. S.," 4 Castle Hill Parade, West Ealing.

JUNIOR; 21; disengaged; good varied experience. J. P. Wellington, Oakham.

LOCUM or for a term; disengaged; qualified. Hobson Key, Brook Estate, Monmouth.

QUALIFIED; low salary for good-class experience. Dixon, 55 Colne Road, Burnley.

QUALIFIED; 24; 8 years' experience; good references. "Pharmacist," 7 Monk's Road, Lincoln.

ASSISTANT; 27; 11 years' Dispensing, Counter; City or S.W. "W. E.," 96 Fawe Park Road, Putney.

QUALIFIED; well experienced; 26; permanency. "Ineog.," 50 Sunlight Street, Belmont Road, Liverpool.

LOCUM; 30; qualified; tall; experienced; reliable; references. Melling, Chemist, Ashton-in-Makerfield, Lancs.

JUNIOR or Improver; 20; 3 years' experience; disengaged. "J. W. H.," 128 Prospect Road, Scarborough.

LOCUM; 29; qualified; 12 years' experience all branches; Continental; moderate. T. H. Buswell, Lutterworth.

LOCUM; qualified; under 30; first-class experience; disengaged. "Chemist," 19 Ossory Street, Rusholme, Manchester.

LOCUM; qualified; all-round experience; excellent references; disengaged June 19. Johnson, 17 Parade, Felixstowe.

LOCUM or permanency; qualified; 24; tall; town and provincial experience "Statim" (50/12), Office of this Paper.

QUALIFIED; Dispensing, Photographic, and Counter; excellent references. Walkinshaw, The Pharmacy, Grayshott.

LOCUM; qualified; excellent references; disengaged from June 6 to 16. "A.," 41 Palmerston Road, Sparkbrook, Birmingham.

SITUATION required with private practitioner as Dispenser or Surgery work; excellent references. 52/4, Office of this Paper.

UNQUALIFIED Assistant; 29; permanency; 14 years' experience; good references. Forsdike, 71 Camden Road, Tunbridge Wells.

ASSISTANT, studying for Final, open engagement; small remuneration; experienced. "D.," 54 Empress Avenue, South Wanstead.

QUALIFIED; disengaged; 22; experienced Dispenser; permanency or Locum. Williams, 228 Upper Parliament Street, Liverpool.

EXPERIENCED Assistant; 36; good Dispenser and Salesman; unqualified. "Statim," c/o J. Hammond, Oaklands, Greenfield, Yorks.

UNQUALIFIED; 6 years' experience, Agricultural, Photographic, country Drug Stores; travelling not objected to. 51/37, Office of this Paper.

CITY.—Advertiser desires position in City business; age 23; good West-end experience; excellent references. "H. P.," 19 St. Julian's Road, Brondesbury.

ASSISTANT (unqualified); 23; tall; 8 years' all-round experience; good Dispenser and Prescriber; disengaged. "Radix," 36 London Road, Horsham, Sussex.

ASSISTANT; 36; competent; energetic; Dispensing, Counter, and Photography; unqualified; good reference. "Metol," 51 Estate Buildings, Huddersfield.

DISENGAGED; good Dispenser, smart Counterman, Prescriber and Extractor; experienced; reliable; abstainer; references. 50/25, Office of this Paper.

UNQUALIFIED; 32; Dispensing, Photographic. Weale, 7 [illegible]ester Street West, Brynmawr, Bree.

LOCUM Pharmacist; 26; booking forward; references. [illegible] Hudson, 148 Portland Street, Lincoln.

DISENGAGED; unqualified; several years' experience. R[illegible] Lelean, 2 Rockville, Hautville, Guernsey.

UNQUALIFIED (31) desires situation; country preferred; 2½ [illegible] in present place. H. Blackburn, Tarporley, Cheshire.

LOCUM or permanency; qualified; middle-aged; abstainer; [illegible] engaged. "Phenacetin," 10 Raby Street, Darlington.

LOCUM; qualified; 26; total abstainer; Extractor, Prescri[illegible]; disengaged. "Ferrum," 45 Crawford Avenue, Wavertree, L[illegible]pool.

UNQUALIFIED Assistant; married; Dispensing, Photogra[illegible], and Window-dressing, etc.; good Counter hand. "Su[illegible]," 85 Fotheringham Road, Enfield, N.

SURGEON'S Dispenser (certified) and Surgery Assistant; L[illegible] or permanent; experienced; excellent references. Apply, "[illegible]aural," 7 Sandall Road, Camden Road, N.W.

ADVERTISER, 6 years' experience, desires position in [illegible] Stores; Counter and Stock; travelling not objected [illegible]. "C. G. P.," The Poplars, Mortimer, Berks.

TEMPORARY Assistant or Manager, disengaged, could comm[illegible] duties at once; age 36; unqualified. Wire or write, "S[illegible]," 1 Penalverin Villas, Norwood Road, Southall.

SMART Assistant; unqualified; good Counterman; 35; tall; si[illegible]; Photography; thoroughly experienced; undeniable refere[illegible]. "Statim," 32 Trinity Road, Tooting, S.W.

LOCUM, emergency; disengaged; real good all-round experi[illegible]; energetic; Extractor; in or out doors; age 37. Write or [illegible], "Chemist," 2 Glencoe Terrace, Wadebridge, Cornwall.

ASSISTANT, Locum, or Manager; good experience; perman[illegible] preferred; obliging; good address; 36; West of Engla[illegible] possible. "Statim," 100 High Street, Street, Somerset.

QUALIFIED (25), tall, booking dates mid-June to mid-Aug[illegible]; highest references; excellent experience, West End and [illegible]viaces. Rock, c/o Downing, Pharmacy, Welwyn, Herts.

MANAGER; qualified; 26; tall; experienced; thorough; [illegible]stainer; view succession entertained; South; undeniable r[illegible]ences; disengaged. Robinson, 83 Nodehill, Newport, Wight.

RELIEF or permanency; varied experience; suburban and [illegible]; reliable Dispenser, Prescriber; tactful Salesman, good O[illegible]iser; trustworthy references. Forster, 5 Coleridge Road, Fins[illegible] Park, N.

YOUNG German Pharmacist, having passed the State exan[illegible]tion, wants situation for July 1 as volunteer in Pharmac[illegible] get a knowledge of the English language. Apply, with condit[illegible], to Alfred Staeps, Ostwall 5, Dortmund, Germany.

QUALIFIED Manager or Assistant; excellent all-round experi[illegible], including Photography; married; 35; disengaged June [illegible]; Locum for present employer, with whom several years previo[illegible]. Furber, J. J. Giles & Son, Dispensing Chemists, Folkestone.

ASSISTANT, unqualified (26), desires a permanent b[illegible] 10 years' high-class experience; with present employer [illegible] 2 years; Counter, Photography, Bookkeeping, expert Dispe[illegible], disengaged June 16. Hewetson, 21 Cambridge Road, Hors[illegible], Sussex.

WANTED, by ex-Staff Sergeant (R.A.M.C.), son of a Me[illegible] man, a situation as Dispenser or Assistant to private D[illegible] or an Institution; exemplary character; 21 years' experie[illegible]; single; South of England preferred. Address, "Compoun[illegible] (48/27), Office of this Paper.

SSISTANT or Manager desires berth; good experience in Store trading, well up all round; disengaged; age 36 years; unalified. "Browne," 82 Sydney Road, Hornsey, London, N.

IVERPOOL or Birkenhead.—Junior; 22; 5 ft. 11 in.; unqualified; 6 years' experience; Dispensing, Photography, Ex-ctor, Impressions, Fillings. G. Towers, 224 Liscard Road, Liscard.

HARMACIST and Surgeon-Dentist; good all-round experience; Manager; single; successful Prescriber, Counterman, etc.; erview London, country half-fare; disengaged. "Statim," George Street, N.W.

IPROVER (20), tall, passed Preliminary, 3 years' Dispensing experience with Medical man, requires situation with Chemist; oors; excellent testimonials. Apply, stating particulars of ary, etc., Evans, Salanama, Pentrefeliu, Portmadoc.

WHOLESALE.

D, smart, seeks situation in London Wholesale house. "Roy," 10 Romola Road, Herne Hill, S.E.

RAVELLER; 25 years' experience; Drugs and Packed Goods; moderate terms. 54/14, Office of this Paper.

RAVELLER, successful salesman, thorough experience, desires engagement. "F. S.," 168 Clarendon Road, Kensington.

EPRESENTATIVE, Sundries; sound connection South, East, West; excellent references. Apply, 50/28, Office of this Paper.

GE 30; good address; desirous of getting on the road; South Coast preferred; highest references. 50/14, Office of this Paper.

WHOLESALE.—Wanted, situation at Wet Counter or Despatch Counter; 15 years in last situation. Address, S. Carter, 6 Dunbe Place, York.

ADVERTISER (26 years of age) seeks situation; good all-round experience, Wholesale Chemists; disengaged when suited. 47/19, Office of this Paper.

ASSISTANT (age 30), good address, is desirous of getting into Wholesale house, office or counter, with view to getting out on road. 50/41, Office of this Paper.

GENTLEMAN, with 20 years' experience as Traveller for Drug house in North England and Scotland, desires Agency for Manufacturer. 53/11, Office of this Paper.

ADVERTISER, well known Liverpool, Cheshire, North Wales, etc., personal connection, as Representative first-class firm Drug, Sundries. "Statim," 52 Belmont Road, Liverpool.

TO Wholesale Perfumers, Soap Makers, etc. — Traveller, with valuable connection in Midlands and the North, desires re-engagement, June 1. Address "Perfume" (50/23), Office of this Paper.

ADVERTISER, 23 years of age, 7 years' Retail experience, desires situation with view to Representing; first-class references guaranteed; no objection to going abroad; interview any time in London. 54/27, Office of this Paper.

TRAVELLER, of wide experience, is open for engagement; has the entrée to all Metropolitan Hospitals and Poor Law Dispensaries; accustomed to call on Doctors and Chemists, and has a sound reputation as a business-bringer. Apply, "Rex" (173/39), Office of this Paper.

YOUNG gentleman, experienced in Wholesale Packed Goods, and travelling, will shortly be open for engagement; possesses good formulæ and label blocks; could undertake creation of department for established wholesale house or multiple retail business; London or country. 53/18, Office of this Paper.

TO Firms interested in the Production of Pills and Tablets.—Advertiser, with several years' practical and unique experience in Manufacturing these products in considerable quantities, is open for engagement beginning of July; outskirts of London or provinces; 10 years' Factory Management and control of staff; inquiries invited. "Leba" (52/27), Office of this Paper.

MISCELLANEOUS.

CADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Telephone 81 Lee Green.
ARES FOR SALE (free of commission, subject).—300 Angostura B ts £1 fully-paid 6 per cent. Preference (participating up to 7 r cent.), 18s. 9d.; 260 Baiss Bros. & Stevenson 5½ per cent. P erence, 18s. 10½d.; 300 Baku Oil, 6s. 4½d.; 80 G. B. Kent Pre-fence, 17s. 4½d.; 165 Lewis & Burrows 6 per cent. Preference, 10 10½d., 160 Ordinary, 2s. 10½d.; 10 Evans Lescher Preference, 10 9d.; 100 J. C. & J. Field 7 per cent. Preference, 12s. 1½d.
ANTED (subject).—100 Camwal Preference, 4s. 6d.; 500 Idris "A" P erence, 3s. 5d., 200 "A" Ordinary, 3s.; £500 Debentures, 59½; L A. J. White Ordinary, 1s. 10½d., 500 Preference, 9s. 9d.; 100 J. K ht Ordinary, 22s. 9d.; 130 Vi-Cocoa Preference, 12s. 1½d.
st of shares for sale and wanted sent free on application. B kers, London County and Westminster. Established 1898.

RGAINS IN SHOPFITTINGS (second-hand).—Two Plate-glass fronted Serving Counters, one 17 ft. long, price £12, another 12 long, £8 15s.; wall Show-case, 10 ft. 6 in. long, mirror centre, pr £12 10s.; Drug-fitting, 12 ft. long, £12 10s.; Desk and Perfume-ca 45s.; Plate-glass Counter-case, 5 ft. long, 80s.; quantity of ot fittings, various sizes, great bargains. PHILIP JOSEPHS & SO S, LTD., 93 Old Street, London, E.C.

E HAVE WHAT YOU REQUIRE, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. W e for sketches and details giving approximate sizes, or call an inspect RUDDUCK & CO., 262 OLD STREET, E.C.

EMISTS' SHOP-FITTINGS (SECOND-HAND). — Ranges ahogany drawers, with bevelled-edge glass labels and cut-glass kn s, shelving above, lockers below; mahogany dispensing-screens, co ers with glass-case fronts, wall-cases, bent-front and flat-top co er-cases, counter-desks, tooth-brush cases, complete shop-ro ls, etc.; every requisite for chemists; extensive stock to select fr at extremely low prices; practical men sent to all parts; ill rated catalogues and estimates free. MATTHEWS, CHEMISTS' FI ER, 14 and 16 MANCHESTER STREET, LIVERPOOL.

GUMMED PRICE TICKETS

1/3

Crimson ground, white figures. Stocked in all usual prices up to 21/-, each price banded separately in hundreds.
The Midget, **9d.** per 1,000
The Magnum, **1/6** per 1,000
each 1,000 assorted 10 different prices. Full illustrated list of Blanks for use with these tickets free on application.

10D.

DLEY & CO., Ticket Writers & Printers, Holloway, London.

CHEMISTS' BARGAINS.—Drug-fittings, Dispensing-screens, Wall-cases, Perfume-cases and Desks, Centre Cases, Counter-cases, Counters, Drawers, Window Enclosures, Glass Shelves, etc., A1 Shop-fittings, second-hand; lowest prices; can't be beaten; send for estimate, it will pay you; 30 years' practical experience. George Cook, The Working Shopfitter, 8a Cross Street, Islington, London.

THE Proprietors of Letters Patent No. 9472 of 1906, relating to "Vessels for Dispensing Liquids," desire to Dispose of the Patent or to grant Licences to interested parties on reasonable terms, with a view to the adequate working of the Patent in this country. Inquiries to Cruikshank & Fairweather, Ltd., International Patent Agency, 65-66 Chancery Lane, London, W.C.

MY OLD COLLEGE TUTOR WRITES:

"Am glad Mr. H. has joined you. Hope he will do as well with your system as I have done." Testimonials of like character are constantly received. Why hesitate longer to send for my free booklet? Either you or your rival will eventually use my system. Let it be you—it cannot be both.

Bernard Slack, 9 King St. Tel. No 581. Wolverhampton.

INCREASE YOUR PROFITS.

Increase the sales of your own Specialities—then your profits increase, also your business. Now is the time to bring out some good new Specialities. A Pharmacist wrote last week, saying: "I have now on my staff one who does nothing but pack my Specialities, and am getting quite a nice wholesale together. In one line alone you have saved me 6s. a gross in telling me how to make it." Booklet, "How to Increase your Business," explaining my system, &c., sent post free to Pharmacists only.

BILLYARD ALLISON, Pharmacist & Business Specialist, RETFORD.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a numbe

No Advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

"JOURNAL of Chemical Society," 1910, posted monthly, 30*s*. 18 Fore Street, Hexham.

REYNOLDS Green "Manual of Botany"; 2 vols.; good condition; sell for 8*s*. Collis, Ryde.

DIETERICH'S "Neues Pharmazeutisches Manual" (1901); bound; 5*s*. 6*d*. post free. "Lanoline" (15/51), Office of this Paper.

OPTICAL AND PHOTOGRAPHIC.

STUDENT'S upright microscope, powerful, 4 objectives, good mahogany case, first-class condition; bargain, 15*s*. Hewetson, 21 Cambridge Road, Horsham.

LANCASTER'S half-plate brass-bound Instantograph, roller-blind shutter behind lens, R.R. rectigraph lens, 3 brass-bound DD. slides, solid leather case, condition and appearance new; bargain £3, or offer; deposit, approval willingly. Berg, Pharmacist, Hatherleigh, Devon.

SHARES.

SHARES for sale. See p. xli.

SHOP FITTINGS.

WHITE-GLASS, stoppered shop-rounds, 9 10-oz., 1 20-oz., 1 40-oz., all n.m., 7 40-oz., 5 20-oz., 8 10-oz., 1 5-oz., all w.m.; 13 shop-jars without lids; 15*s*. the lot. Bennett, 32 Victoria Road, Widnes.

NEST good drawers, with lockers under, 16 ft. by 4 ft. 6 in. high, good condition; full set of shop-rounds, gold labelled; mahogany wall-case, plate-glass doors, 27 in. high, 61 in. long; sundry other useful articles to be cleared cheap. 245 Plashet Road, Upton Park, London.

MISCELLANEOUS.

GLEDHILL coin-exhibiting till; 8 lb. zinc. sulph. pur. (jar); 4 lb. cetraria islandica; 25*s*. lot. 50/36, Office of this Paper.

BEST circular red rubber air-cushion; 18 in.; as new; cost 15*s*.; bargain, 10*s*. H. H. Chadwick, 7 York Terrace, Akroydon, Halifax.

SODA-FOUNTAIN, Matthew's, 4 syrups, Nautilus, on mahogany sponge-case, with cupboard for glasses, etc.; now in use; take half cost. Inquiries of "Soda," 113 The Grove, Hammersmith.

WANTED.

SPLIT Apollinaris bottles, 7*s*. per 100, car. forward. W Grantham.

WEIGHING-MACHINE, personal; cheap, accurate. Ga Chemist, Blackpool.

B.P., 1898; suppository and pessary moulds; pill-machine. Office of this Paper.

PLATINUM, crucibles, wire, foil; full value remitted. R 11 Crebor Street, Dulwich.

DRUG-DRAWERS, 14-ft. length, glass labels and knobs; go condition. Price and full particulars, C. H. White, Oldbury.

OPTICAL books; Minor, Major, Chemists' books; send pre for valuation; cash offers per return. Gower, Bookseller, W Liverpool.

SECOND-HAND short-beam chemical balance; must be in go condition and moderate in price. Reply to "X. Y. Z." (Office of this Paper.

TO BUYERS AND SELLERS.

We take every care to ensure that proprietary and her goods advertised in this column are genuine surplus ock of reputable persons in business, and are compel to refuse advertisements sent by those who, when oc ion requires, decline to satisfy reasonable inquiries as t eir *bona-fides*.

We again call the attention of those who use this c mn for the sale or purchase of goods to the desirability of ing our Deposit System. Some forward goods before hey receive money for them, and others forward mor to advertisers before they have even seen the goods. Dis-appointment in such circumstances is bound to happe ow and then, and it is to prevent this, as well as to check nd, that our Deposit System was instituted.

The buyer sends us the money for the goods, and wl we hear from him that they are satisfactory, and not til en, we hand over the money to the seller. A commiss of 6*d*. is charged by us on any transaction of 3*l*. or les and 1*s*. if above that amount. The commission is paya by the buyer, and should be included in the money sent us. All Cheques and Postal Orders should be made paya to "Edward Halse," and crossed "Martin's Bank, Lt

WHOLESALE TRADE ONLY.

Established 1900.

DR. B. W. GATHERGOOD'S EXOR.

Terrington St. John, WISBECH

For GREEN EXTRACTS and DRIED HERBS of BELLADONNA, HENBANE, &c.

Coming Events.

Th Section of the "C. & D." is reserved for advance notices meetings or other events which are sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Wednesday, June 1.

Phaaceutical Society of Great Britain, 16 Bloomsbury Suare, London, W.C., at 11 A.M. Council-meeting.

Phaaceutical Society of Ireland, 67 Lower Mount Street, blin, at 3 P.M. Council-meeting.

Londn Chemists' Association, 19 Kennington Terrace, Kenngton Park, S.E., at 3 P.M. Committee-meeting.

Thursday, June 2.

Greaarmouth Pharmaceutical Association, 156 King Street, a P.M. Monthly meeting.

CHEMICAL SOCIETY.—The dinner to five past-Presidents of the Siety who have attained their jubilee as Fellows, which was ed for May 26, has been postponed owing to King Edwd's death.

SOUT OF ENGLAND COLLEGE OF PHARMACY.—A dinner to past nd psent students of this College will be given by Mr. H. Lucas F.C.S., the Principal, in the Venetian Chamber of the Lborn Restaurant, on June 9. Mr. T. H. W. Idris, J.P., .C.S., will preside. Past students who desire to be prese are requested to communicate with Mr. Lucas at 20 Cpham Road, London, S.W.

NATNAL UNION OF ASSISTANT PHARMACISTS.—The meeting of the Ammingham Branch which was to have been held on Thursay, May 19, was postponed on account of the disorgaed condition of business owing to King Edward's funer The adjourned meeting will be held on Monday, June at Benson's Restaurant, Lower Temple Street, at 9 P.M.

FAIHILD SCHOLARSHIP AND PRIZES.—The examination for these ill be held in London, Manchester, Dublin, Edinburgh and Cardiff in the last week in June, and candidates who end to sit for it are required to give notice in writing, not lar than June 1, to the Secretary, Mr. A. E. Holden, Alber Chambers, 64 and 65 Holborn Viaduct, London, E.C., from hom application-forms should be obtained *at once*.

THE ombined launch trip of the Thames Valley Pharmacists' sociation, the Western Pharmacists' Association, and the Cydon Pharmacists' Association will take place on June It is proposed to start from Cookham, to lunch at Woods, and subsequently to serve tea on board. Tickets (10s. each), which include train fare from Paddington, lunch, nd tea, are obtainable from the Secretaries of the three sociations.

College Notes.

SOUT OF ENGLAND COLLEGE OF PHARMACY.—A party of the studen visited the neighbourhood of Coulsdon on May 21 for a tanical ramble. The route taken was to Farthing Down, and from there through the woods to Coulsdon

Comme tea being taken at the "Fox." A good selection of plan was collected, and one of the party took a photograph the rest, which we reproduce the same size as the origina because it is the best miniature photograph which we hav received for many a day.

BATH ND WEST OF ENGLAND COLLEGE OF CHEMISTRY AND PHARM r.—At the competitive examinations held last term, the fo wing students obtained awards: *Silver Medals*—Messrs B. Hall and A. B. Ogle. *Remington Prize* (awarded by Mes s. Burroughs Wellcome & Co. for pharmacy)—Mr. B. Hal *School Prize*—Mr. C. W. Sowby. *Certificates of Merit*—hemistry, Messrs. B. Hall, A. B. Ogle, and C. T. Williams; Pharmacy, Messrs. D. Bennett, B. Hall, and A. B. Ogle; Materia Medica, Messrs. D. Bennett, B. Hall, and A. B. Ogle; Botany, Messrs. D. Bennett, B. Hall, and A. B. Ogle; Dispensing, Messrs. D. Bennett, B. Hall, A. B. Ogle, C. T. Williams, and C. S. Watson-Will.

Minor Experiences.

W. N. S. (10/39) sends us his experiences in the London Minor examination.

DISPENSING.—Three hours was allowed for the following paper:

Syr. ferri phos. cum quin. et strych. ʒiv.
Butyl chloral. hyd. ... ... gr.ij.
Ft. pil. Mitte xx. Pone in phiala.
Sig.: j. secunda hora sumend. urgente dolore.

Ac. tannic. ... ... gr. xvj.
Tr. myrrh. ... ... ♏xv.
Aq. ad ... ... ℥j.
Ft. garg. Mitte ʒviij. Sæpe utend.

Menthol. ... ... 1 per cent.
Camphor. ... ... 2 per cent.
Paraff. liq. ad ... ... ℥j.
Ft. neb.

Ext. nucis vom. ... ... gr. ¼
P. rhei ... ... gr. ij.
Mag. carb. ... ... gr. x.
M. Pone in cachet. ij. Mitte tales x.
Sig.: ij. ter die sumend. inter cibos.

In preparing the pills the powdered extract and heavy carbonate of magnesia were used.

PRACTICAL CHEMISTRY.—A mixture of two substances, a white powder, was found to contain lead, calcium, and oxalic and citric acids. The volumetric work was simple—pure sodium carbonate being provided, to standardise a dilute sulphuric-acid solution, and with this estimate the amount of borax in a given solution.

In due course I was called upon to sit for the oral examination. The first subject was

PHARMACY.—I was shown and asked to recognise a bottle of oxymel scillæ. How was it made? Also the strength of the acid in oxymel and oxymel scillæ, and whether the same strength or a stronger than B.P. acid. acetic. dil. was used. Give the strength of B.P. acid. acetic., and state proportion required to make the dilute acid. A few more questions followed, including the strength and preparation of pil hydrarg., ung. hyd. nit. (to what is the yellow colour due?), and mercuric oleate. The last questions were on glycerin. amyli (the temperature used in its preparation), glyc. boracis, glyc. acid. boric., and ung. conii.

CHEMISTRY.—Two equations were given for comment, as follows: $BaO_2 + 2HCl = BaCl_2 + H_2O + O$; $Sn + HCl = SnCl$. Having re-written them correctly, I was asked, What is nascent hydrogen? How would you estimate ferric chloride? Give a sketch of the apparatus. Why not use permanganate of potassium in titrating the reduced-iron solution? (The examiner explained that potassium bichromate was less likely to oxidise any impurities that might be present.) How is potassium chlorate made? What is chloride of lime? How is chloroform prepared, and what are its likely impurities? Define an aldehyde and give the general formula. Describe and explain a chemical balance.

In PRESCRIPTION-READING two simple calculations were given: State the quantities required to prepare 1 oz. of iodoform ointment containing 3.5 per cent. of iodoform. How much acid. boric. should be taken to prepare 2 litres of a 4-per-cent. solution? The translation of two English prescriptions into full Latin was followed by a number of doses, including those of tr. opii, acid. hydrocyan. dil., ext. ergot. liq., pilocarpin. nit., and phosphorus. Several badly written prescriptions were handed to me, which I read quite easily.

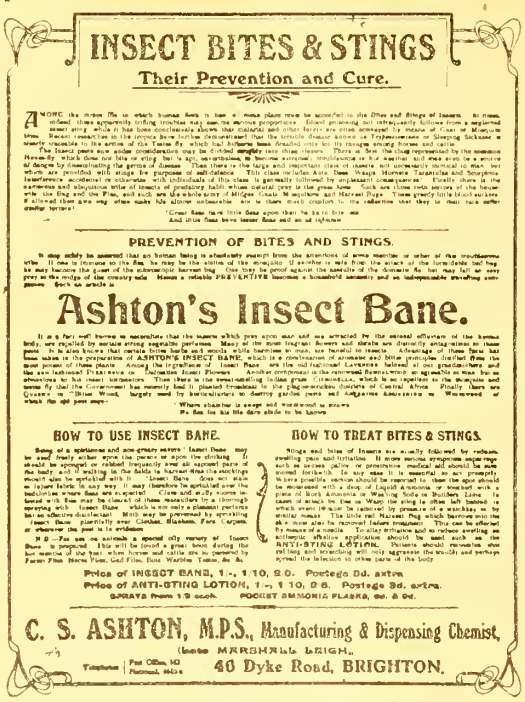
BOTANY.—The English names of several plants mentioned in the Pharmacopœia; then, What are the *Pteridophyta*? What is chlorophyll for? What is diastase? Several catkins including two specimens of willow (one in flower and the other in bud), were given for recognition, also a crocus-flower: Give its natural order, stating the reasons. Sections of a monocot. seed and a dicot. stem were shown under the microscope. On being told I did not know very much botany, I explained that living in London had its disadvantages.

MATERIA MEDICA.—About thirty specimens were handed to me, including ipecacuanha-root, hyoscyamus-leaves (annual and biennial), belladonna-root, cinnamon-bark, rhatany-root (give natural order), euonymus-bark, elaterium (what is it? Give source and state the active principle), oak-bark, and some "smashed-up" leaves. I said if a decent specimen were shown me I could say what they were.

Soon afterwards the President congratulated me on successfully negotiating the examination.

Advertising Ideas.

HERE are two reproductions of printed matter, which speak for themselves. In the first Mr. Ashton, of Brighton, exercises well his pharmaceutical knowledge for advertising-purposes :


INSECT BITES & STINGS
Their Prevention and Cure.

PREVENTION OF BITES AND STINGS.

Ashton's Insect Bane.

HOW TO USE INSECT BANE.

HOW TO TREAT BITES & STINGS.

Price of INSECT BANE, 1/-, 1/10, 2/6. Postage 3d. extra
Price of ANTI-STING LOTION, 1/-, 1/10, 2/6. Postage 3d. extra.
SPRAYS from 1/9 each. POCKET AMMONIA FLASKS, 6d. & 9d.

C. S. ASHTON, M.P.S., Manufacturing & Dispensing Chemist,
(late MARSHALL LEIGH,)
Telephone: Post Office, 10 / National, 4424
46 Dyke Road, BRIGHTON.

Size of the original, 11¼ in. by 8¾ in.

Mr. Cleworth is an ardent and very successful photographer, and he uses a stock wrapper (20 in. by 15 in.), which is set as follows :

Photographers
Do not Forget
If you require ANYTHING in the Photographic Line
I CAN SUPPLY YOUR WANTS
By dealing with me, you get practical knowledge from a Practical Chemist and Photographer (who has won £12 in cash within the last two years in three competitions).
If you have taken some good pictures, do not risk developing them with unreliable developers. Be advised, and ONLY USE
Our Standard Two Solution Developer
Two 10-ounce Bottles for 10d.
It has been proved by hundreds of Photographers (including photographers of 15 and 20 years' experience), to be the Finest and Best Developer on the market
TWO OTHER GOOD THINGS.
CLEWORTH'S Combined Toning & Fixing Solution
CLEWORTH'S PERFECT DEVELOPER
10 ounces for 6d.
10 ounces for 6d.
Cleworth, Dispensing Chemist
50, Dacre St., & Lloyd St., GREENHEYS.
The only Registered Qualified Chemist of this Name in Great Britain

The matter (border included) occupies 16½ in. by 11½ in., and there is a margin of about 2 in. top and bottom and 1½ in. at sides.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Pure Pinene.—Darmois ("Comptes rendus," exlix p. 730) has investigated the portions of various oils of tu pentine which distil over between 155° and 163°, and has foun that these contain about 62 per cent. of pure pinene, eithe dextro- or lævo-rotatory, according to the species of oil, an a compound slightly lævo-rotatory, which is identical in a the oils, the constitution of which has not yet been definitel ascertained, but is presumed to be identical with the nopinen of Bayer. The author was able to obtain a very pure cryst line pinene from the dextro-rotatory oil distilled from *Pin halepensis*, with a boiling-point of 155°, $^{\alpha}D = +48$.

Detection of Methyl Alcohol.—G. Denigès ("Compt Rendus," vol. cl., No. 13) uses 5 c.c. of 1-per-cent. potassiu permanganate and 0.2 c.c. of pure sulphuric acid with 0.1 c. of the liquid to be tested for methyl alcohol. After we mixing, 0.1 c.c. of oxalic-acid solution (8 per cent.) is adde and when the liquid has become pale yellow, more sulphur acid (1 c.c.) and 5 c.c. of fuchsine bisulphite solution. methyl alcohol is present a violet coloration is produced, eth alcohol not interfering with the colour-reaction; in fact, i presence is advantageous. Methyl ethers and methyl gluco sides must be hydrolysed before testing for their containe alcohol.

Volatilisation of Camphor.—La Wall ("Ame Drugg.," 1909, p. 107) has studied the rapidity of volatilis tion of camphor in lumps, in powder, in liniment of campho and in spirit of camphor. He found that lump campho suffered a loss of 1.56 per cent. after twenty-four hours, i creasing to 61.95 per cent. at the end of forty-five day Powdered camphor lost 8.8 per cent. of its weight after twent four hours, and after twenty days as much as 99.9 per cen Liniment of camphor of a strength of 20 per cent. left in a uncorked bottle at a temperature of 40° for one month on suffered a loss of 0.79 per cent. A spirit of camphor contai ing 10 grams in 100 c.c. was found to contain the equivale of 12.04 grams in 100 c.c. at the end of a month, the alcoh being more volatile than the camphor.

Wet Process for Preparing Corrosive Sublimate. Professor E. Rupp and W. Klee-Konigsberg ("Apoth. Zeit, March 30, p. 219) advocate the following method of preparin pure mercuric chloride as economical: Mercury sulpha (100 parts) is mixed with sodium chloride (40 parts) and, aft being reduced to a fine powder, made into a paste with 5-pe cent. hydrochloric acid (20 parts). The mass is frequent worked during the ensuing twenty-four hours, and th extracted with hot 95-per-cent. alcohol. If an extractio apparatus with a reflux condenser is used, the extraction complete in one to one and a half hour with a minimum alcohol. After the solvent is removed the corrosive sublima can be recrystallised from water, giving a preparation fr from sulphates and complying with technical requirement The yield is about 90 per cent.

Determination of Theobromine in Theobromi Sodium Salicylate.—Auneler ("Pharm. Zeit.," 1910, p. 2 proposes the following method: 1 gram of the sodio-salicyla is dissolved in 100 c.c. of water and washed into a separate Add 3 c.c. of 10-per-cent. hydrochloric acid, 1 drop of phen phthalein solution, and sufficient concentrated bariu hydroxide solution that the red colour still remains shaking; 20 c.c. of a 20-per-cent. solution of phenol chloroform is now added, and the whole allowed to sta for one hour, shaking occasionally. The chloroform solutio is filtered into a weighed glass capsule, and the aqueous lay again shaken up three times, each time with 10 c.c. of t phenol-chloroform solution. The filtrate is evaporated the water-bath, the residue being pure theobromine. T results obtained by this method are correct to 0.1 per cent.

Mikania Guaco is the name of a drug imported fro South America, where it is particularly employed in t treatment of snake-bites. According to Tunmann's inves gations (Gehe & Co.'s "Berichte," 1910), it consists of twi stems, and parts of the rhizome of a plant undoubtedly belon ing to the family of the *Aristolochiaceæ*. No alkaloid cou be isolated. An etherial oil was obtained with a light-yell colour, distinctly acid reaction, and pleasant odour, rese bling that of peppermint. An analysis of the oil yielded crystalline acid and a phenol, an ester and a terpene-like o The amount of oil present was found to be about 1 per ce —*Tai-tsa-ju* is another drug used against snake-bites (*loc. c* and also in leprosy, scabies, and other affections in its Chin home. It consists of light-brown slender roots, rhizomes, a parts of the stem, presumably, of a member of the *Loganace* It was found to contain a yellow colouring-substance and t highly toxic alkaloids, which have not yet been identified.

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